

CALIFORNIA INSTITUTE OF TECHNOLOGY

EARTHQUAKE ENGINEERING RESEARCH LABORATORY

ANALYSES OF STRONG MOTION EARTHQUAKE ACCELEROGRAMS

VOLUME III - RESPONSE SPECTRA

PARTS M AND N - ACCELEROGRAMS IIM176 THROUGH IIM184
AND IIN185 THROUGH IIN197

REPORT NO. EERL 74-83

A REPORT ON RESEARCH CONDUCTED UNDER A
GRANT FROM THE NATIONAL SCIENCE FOUNDATION

PASADENA, CALIFORNIA

MAY, 1974

CALIFORNIA INSTITUTE OF TECHNOLOGY
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Parts M and N - Accelerograms IIM176 through IIM184
and IIN185 through IIN197

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ABSTRACT

This is one of a series of reports presenting earthquake response spectrum curves calculated from corrected accelerograms. In the preface to the first part, Volume III, Part A, Report No. EERL 72-80, there is a summary of response spectrum techniques in earthquake engineering which is available as background material for the data. For each earthquake accelerogram, two spectrum plots are given - relative velocity response versus period on a linear scale, and a tripartite log-log plot giving relative displacement, pseudo-velocity, and pseudo-acceleration spectra. The Fourier spectrum is also shown on the linear plot. Digital printout of ordinates of the plotted curves are tabulated for each earthquake. The records analyzed in this report, Volume III, Parts M and N, are the corrected accelerogram records contained in Volume II, Parts L and M, Report No. EERL 74-53, and Volume II, Part N, Report No. EERL 74-54, and appeared in their uncorrected form in Volume I, Part M, Report No. EERL 72-26, and Volume I, Part N, Report No. EERL 72-27.

TABLE OF CONTENTS

	<u>Page</u>
Preface to Volume III, Parts M and N	1
Notes on the Volume III Series	3
Index of Earthquake Records, Earthquake Data, and References for Volume III, Parts M and N	10
Plots and Printouts of Response Spectra for Accelerograms IIM176 through IIM184 and IIN185 through IIN197	16
List of EERL Reports Available from NTIS	280

PREFACE TO VOLUME III, PARTS M AND N*

This report, Volume III, Parts M and N, Report No. EERL 74-83, is part of the Volume III series presenting earthquake response spectrum curves calculated from corrected accelerograms. We continue here with records from the San Fernando, California, earthquake of February 9, 1971. The analysis of records from this earthquake appeared first in Volume III, Part C, Report No. EERL 73-81, and this continuation includes the analysis of records from the following locations:

1. 1150 South Hill Street, Los Angeles (3 records)
2. Tehachapi Pumping Plant, Grapevine
3. 4000 W. Chapman Avenue (or 1 City Boulevard),
Orange (3 records)
4. 6074 Park Drive, Wrightwood (2 records)
5. Carbon Canyon Dam, Brea
6. Whittier Narrows Dam, Whittier
7. San Antonio Dam, Upland
8. 1880 Century Park East, Los Angeles (3 records)
9. 2516 Via Tejon, Palos Verdes Estates
10. 2500 Wilshire Boulevard, Los Angeles (3 records)
11. City Hall, San Juan Capistrano
12. Long Beach State College, Long Beach
13. Anza Post Office, Anza

The uncorrected versions of these records appeared in Volume I, Part M, Report No. EERL 72-26, and Volume I, Part N, Report No. EERL 72-27, and the corrected accelerations, velocities, and displacements were included in Volume II, Parts L and M, Report No. EERL 74-53, and Volume II, Part N, Report No. EERL 74-54. The Volume II corrections included a long period cut-off of 8 seconds for the 70-mm film records in these two parts instead of the standard cut-off

*For reasons of economy and convenience in the size of the reports, it has been thought desirable to combine two parts into one report.

period of approximately 15 seconds. The only accelerogram in this issue not recorded on 70-mm film, and therefore filtered with the standard 15 second cut-off period, is M179, the Tehachapi Pumping Plant at Grapevine. The results published here for the other records reflect this altered frequency band.

A number of very low amplitude accelerograms have been eliminated from the processing of Volume II and on, reflecting the expectation that the resulting displacements would be dominated by noise. However, none of the records in this issue are included in this group of accelerograms.

NOTES ON THE VOLUME III SERIES

Description of the Four Volumes of the Project. The series of reports in Volume I present "uncorrected" digitized and plotted strong-motion earthquake accelerograph data, while the series in Volume II present corrected digitized data prepared so that the maximum information over the widest practicable frequency range would be available. The corrections include long period filtering ensuring to the greatest extent possible a uniform type of baseline adjustment and an instrument correction to account for the high frequency response characteristics of the accelerograph transducer.

The Volume III series presents earthquake response spectrum curves calculated from the corrected accelerograms of Volume II. A brief introduction to response spectrum techniques as they are commonly applied in the earthquake engineering field appeared in Volume III, Part A, Report No. 72-80, and this may be referred to by those users who need more explanatory remarks than appear in the following.

The Volume IV series contains Fourier amplitude spectra calculated by the Fast Fourier Transform algorithm.

Contents of the Various Parts. Part A of Volume III contained the response spectra analysis for the corrected records of Volume II, Part A, Report No. EERL 71-50. In turn, the "uncorrected" versions of these records appeared in Part A of Volume I. This arrangement has been maintained in all subsequent parts. In Part C of Volume III, Report No. EERL 73-81, we began the presentation of response spectra

analysis for the unusually important series of accelerograms obtained during the San Fernando earthquake of February 9, 1971. These are expected to be concluded with Part S. The reports following Part S will continue with the original selection of approximately one hundred strong-motion records whose presentation was initiated in Parts A and B.

Component Directions. A description of the component direction nomenclature for the records was given in Volume II, Part B, Report No. EERL 72-50. Consistent with this, the component direction where it appears in this report refers to the direction of the transducer pendulum motion for the trace to be deflected "up" on the record when viewed in the normal way with time increasing from left to right. The direction of true ground acceleration is opposite to this pendulum motion. The spectral calculations of Volume III are concerned with absolute values of the response and the particular component sense in this report is thus immaterial.

Assessment of Long Period Errors. A separate section in Volume II, Part G, Report No. EERL 73-52, entitled "Current Assessment of Long Period Errors" describes the results of a recent investigation of long period displacements calculated from recorded accelerations. During the course of this study it became evident that the procedures for preparation of 70-mm and, to a lesser extent, 35-mm film records from the San Fernando earthquake of February 9, 1971, introduced spurious excitations at periods close to the duration of the sectional enlargements. These effects have been removed from

all of the 70- and 35-mm film records by filtering with a long period limit of 8 seconds rather than the standard cut-off period of 16 seconds in the Volume II correction procedure. The following list of Caltech reference numbers indicates the records from the San Fernando earthquake included in Volume I, Parts C through S, that have been processed with the cut-off period of 8 seconds:

Parts G, H, I, K, N, Q, R, S: All records in these parts.

Part J: Records J142, J145 through J150.

Part L: Records L166, L167, L168; L172 through L175.

Part M: Records M176, M177, M178; M180 through M184.

Part O: Records O198 through O201; O206, O208, O210.

Part P: Records P231 and P232.

A decision was also made at the same time to eliminate a number of very low amplitude accelerograms from further processing (Volume II, III, and IV), reflecting the expectation that the resulting displacement records will be dominated by noise. Their Caltech reference numbers are as follows:

H127; I140; J151, J152; K153 through K156; K161 through

K165; O202, O203, O209, O211, O212; P224 through P230.

Description of the Figures and Tables. For each component in the following pages there are two figures showing response spectra and two pages of tables containing most of the spectral ordinates. These are described in detail in the following.

The first plot is that of the true relative velocity response spectrum, SV. The name of the earthquake, the instrument location, and the damping values appear in the descriptive titles. The first title gives the name, date, and time of occurrence of the earthquake; the second is comprised of two labels, the instrument location or observation station and the particular component. The first identification label, for example IIIA001, indicates that this analysis appears in Volume III, Part A, that the processed record belongs to Volume II, Part A, containing corrected data, and that this record is the first of the complete series. This record's uncorrected data appear in Volume I, Part A, and its Fourier spectra in Volume IV, Part A. The second identification label is a record label (for instance 40.001.0), a string of three numbers separated by periods. The first number gives the year in which the earthquake appeared, the second is the serial number of the record as it was received at the Earthquake Engineering Research Laboratory during that year, and the third indicates whether it was a main event or an aftershock, sequentially numbered, the main event starting with zero.

The five continuous line plots correspond to damping values of 0, 2, 5, 10, and 20 percent of critical, and these curves will usually be easily distinguishable, with the zero damped curve having the greatest ordinates. The dashed curve on this plot is the Fourier amplitude spectrum, FS, calculated at the same periods as for the relative velocity response spectra. The ordinates for the spectra are in units of in/sec, in accordance with past engineering practice, while the scale is chosen to fill the available space. The periods extend to

15 seconds, or 8 seconds, as the case may be, close to the long period cut-off point in the corrected data of Volume II, but the axis is divided into two linear portions. From 0 to 3 seconds takes up three-quarters of the axis, and from 3 to 15 seconds takes up the remainder.

The second plot is that of the pseudo velocity response spectrum, PSV, together with the relative displacement spectrum, SD, and the pseudo acceleration spectrum, PSA, in the tripartite logarithmic plot versus period. This convenient plot is made possible by the relationships between PSV, SD, and PSA detailed in Volume III, Part A, Report No. EERL 72-80. The units are, once again, the engineering units of in/sec, in, and g, respectively. The descriptive titles are the same as on the true relative velocity spectrum.

The two pages of tables contain values of the ordinates for the previous plots. After the titles there are arranged, in columns, the periods (PER), Fourier amplitude spectrum (FS), and then sets of four columns containing SD, SV, SA, and PSV for all of the five damping values. The units are indicated and each value is followed by a multiplicative power of 10, e.g., 432-1 represents a value of 43.2.

The ordinates are also stored on computer cards containing the Fourier amplitude spectrum and for all of the five damping values, the pseudo velocity and relative velocity response spectra. A simplified economic format, 13F6.3, is made possible by using the logarithms of these spectra. The last two columns are for identification purposes. These cards are available on request from the National Information Service for Earthquake Engineering at the California Institute of Technology.

Inclusion of Spectra of Upper Story Records. The earthquake response spectrum was originally introduced as a means of characterizing the response of structures to the exciting ground motion, and hence such spectra are usually calculated from ground motions themselves. There are many instances, however, in which a structural motion is the excitation, for example, of mechanical equipment or other objects attached at upper story locations in buildings. In such cases it may be useful to calculate a response spectrum based on an acceleration-time function which is in itself a response to the earthquake ground motion. Such response spectra of structural motions will ordinarily contain predominant peaks corresponding to structural frequencies and will consequently appear very different from ground spectra.

A number of accelerograms have been obtained from instruments located in upper floors of buildings, and it has been decided to include response spectra computed from these structural responses in the same form as the ground spectra. Such building spectra will be useful in estimating the response of equipment and contents to building motions excited by earthquakes. The reader is cautioned to keep this point in mind and to avoid such building spectra when studying the characteristics of the ground motion itself.

Acknowledgments. The cooperative efforts of many people are essential in the preparation of a series of reports of this kind and we have been fortunate in the quality of staff that has carried out the various details with special care and attention. We should like to express our appreciation to Mr. Vincent Lee for his assistance

with many details of computer programming, to Miss Barbara Turner and Miss Sharon Vedrode for the care taken with typing and editing, to the staff of the Willis H. Booth Computing Center for their continued help with all aspects of the computing process, and to the staff of the Caltech Graphic Arts Facilities for very efficient work on publication details. The whole project has been made possible by the continued support of the National Science Foundation, supplemented in an important way by contributions from the Earthquake Research Affiliates Program of the California Institute of Technology.

M. D. Trifunac
A. G. Brady
D. E. Hudson
Earthquake Engineering Research Laboratory
California Institute of Technology

INDEX OF EARTHQUAKE RECORDS

VOLUME III, PARTS M AND N

Records Page

San Fernando Earthquake, February 9, 1971 - 0600 PST

IIIM176;	1150 S. Hill St., Los Angeles, Calif.; Sub-basement; N37E, S53E, Down	16
IIIM177;	1150 S. Hill St., Los Angeles, Calif.; 5th Floor; N37E, S53E, Down	28
IIIM178;	1150 S. Hill St., Los Angeles, Calif.; 10th Floor; N37E, S53E, Down	40
IIIM179;	Tehachapi Pumping Plant, C.W.R. Site, Grapevine, Calif.; South, East, Down	52
IIIM180;	4000 W. Chapman Ave., Orange, Calif.; Basement; South, West, Down	64
IIIM181;	4000 W. Chapman Ave., Orange, Calif.; 10th Floor; South, West, Down	76
IIIM182;	4000 W. Chapman Ave., Orange, Calif.; 19th Floor; South, West, Down	88
IIIM183;	6074 Park Drive, Wrightwood, Calif.; Ground level; N65W, N25E, Down	100
IIIM184;	6074 Park Drive, Wrightwood, Calif.; Ground level; S65E, S25W, Down	112
IIIN185;	Carbon Canyon Dam, Brea, Calif.; S50E, S40W, Down	124
IIIN186;	Whittier Narrows Dam, Whittier, Calif.; S37E, S53W, Down	136
IIIN187;	San Antonio Dam, Upland, Calif.; N75W, N15E, Down	148
IIIN188;	1880 Century Park East, Los Angeles, Calif.; Parking, 1st Level; N54E, N36W, Down	160
IIIN189;	1880 Century Park East, Los Angeles, Calif.; 7th Floor; N54E, N36W, Down	172
IIIN190;	1880 Century Park East, Los Angeles, Calif.; Penthouse; N54E, N36W, Down	184
IIIN191;	2516 Via Tejon, Palos Verdes Estates; Ground Level; N65E, S25E, Down	196

INDEX OF EARTHQUAKE RECORDS (cont.)

	<u>Page</u>
IIIN192; 2500 Wilshire Boulevard, Los Angeles, Calif.; Basement; N29E, N61W, Down	208
IIIN193; 2500 Wilshire Boulevard, Los Angeles, Calif.; 8th Floor; N29E, N61W, Down	220
IIIN194; 2500 Wilshire Boulevard, Los Angeles, Calif.; Roof; N29E, N61W, Down	232
IIIN195; San Juan Capistrano; N33E, N57W, Down	244
IIIN196; Long Beach State College, Long Beach; Ground Level; N76W, S14W, Down	256
IIIN197; Anza Post Office, Anza, Calif.; Storage Room; N45E, N45W, Down	268

EARTHQUAKE DATA

The San Fernando, California, Earthquake of February 9, 1971,
0600 PST; epicenter, $34^{\circ}24.7'N$, $118^{\circ}24.0'W$;* maximum intensity, XI;
revised magnitude (M_L), 6.4; depth, 13.0 km.

*Latest revised epicenter location.

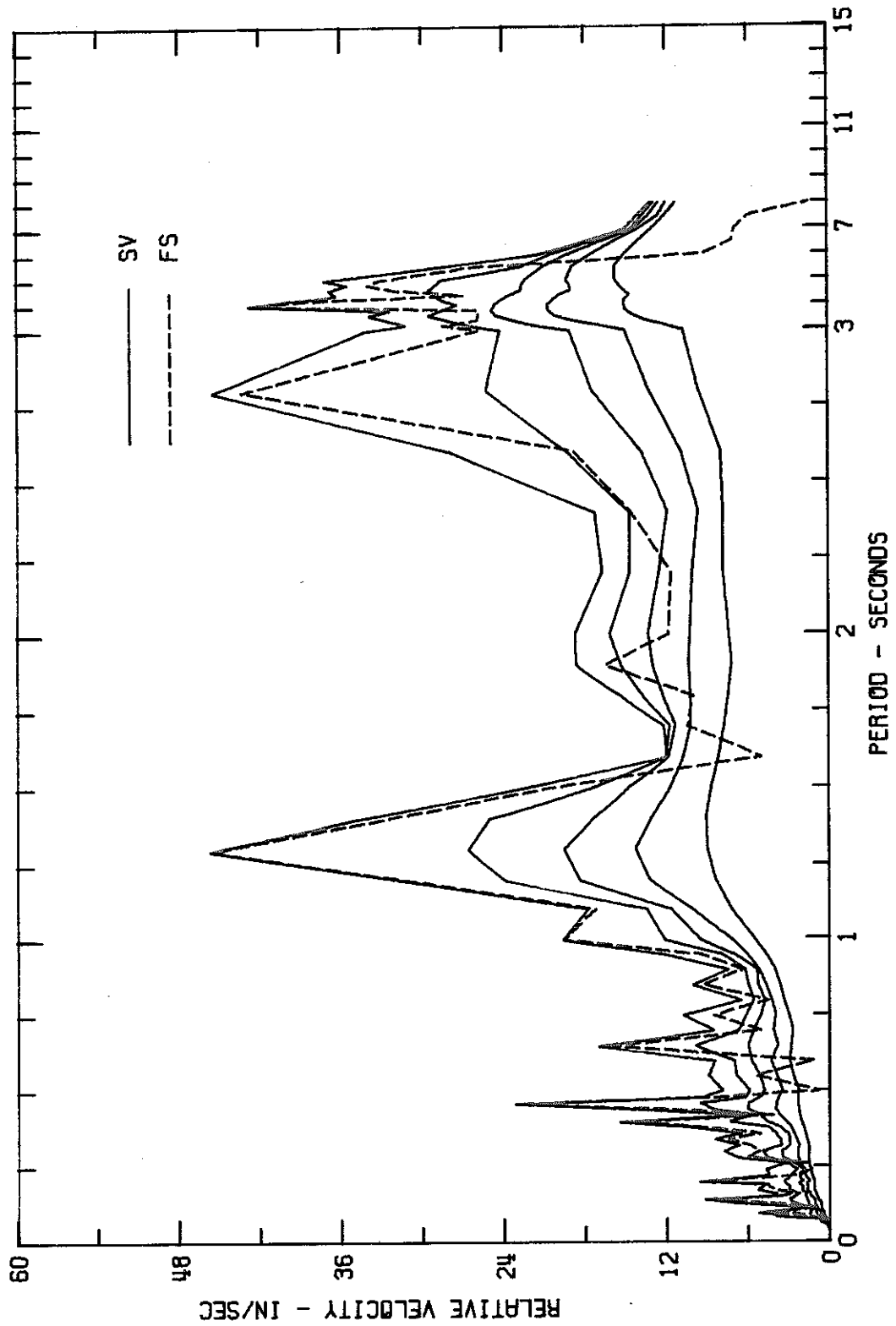
REFERENCES (See additional list, page 280)

- (April-May, 1971). "The San Fernando Earthquake," California Geology, v. 24, n. 4-5.
 - (November, 1971). "Report of the Los Angeles County Earthquake Commission, San Fernando Earthquake, February 9, 1971," prepared for the Los Angeles Board of Supervisors.
 - "The San Fernando Earthquake of February 9, 1971," National Academy of Sciences, Washington, D.C.
- Barrows, A. G., et al (1971). "Map of Surface Breaks Resulting from the San Fernando, California, Earthquake of February 9, 1971," California Division of Mines and Geology.
- Bolt, B. A. (August, 1972). "San Fernando Rupture Mechanism and the Pacoima Strong-Motion Record," Bull. Seism. Soc. Amer., v. 62, n. 4, 1053-1061.
- Boore, D. M. (October, 1973). "The Effect of Simple Topography on Seismic Waves: Implications for the Accelerations Recorded at Pacoima Dam, San Fernando Valley, California," Bull. Seism. Soc. Amer., v. 63, n. 5, 1603-1609.
- Canitez, N. and M. N. Toksöz (May, 1972). "Static and Dynamic Study of Earthquake Source Mechanism: San Fernando Earthquake," J. Geophys. Res., v. 77, n. 14, 2583-2594.
- Division of Geological and Planetary Sciences, California Institute of Technology (April, 1971). "Preliminary Seismological and Geological Studies of the San Fernando, California, Earthquake of February 9, 1971," Bull. Seism. Soc. Amer., v. 61, n. 2, 491-495.
- Hanks, T. C. (March, 1974). "The Faulting Mechanism of the San Fernando, California, Earthquake," J. Geophys. Res., v. 79, n. 8, 1215-1229.
- Hileman, J. A., C. R. Allen, and J. M. Nordquist (1973). Seismicity of the Southern California Region, 1 Jan. 1932 to 31 Dec. 1972, Seismological Laboratory, Calif. Inst. of Tech., Pasadena, Calif.
- Housner, G. W. and P. C. Jennings (July-September, 1972). "The San Fernando California Earthquake," Earthquake Engineering and Structural Dynamics, The Journal of the International Association for Earthquake Engineering, v. 1, n. 1, 5-31.

- Hudson, D. E. (December, 1972). "Local Distribution of Strong Earthquake Ground Motions," Bull. Seism. Soc. Amer., v. 62, n. 6, 1765-1786.
- Mikumo, T. (1973). "Faulting Process of the San Fernando Earthquake of February 9, 1971 Inferred from Static and Dynamic Near-Field Displacements," Bull. Seism. Soc. Amer., v. 63, n. 1, 249-269.
- Perez, V. (1973). "Velocity Response Envelope Spectrum as a Function of Time, for the Pacoima Dam, San Fernando Earthquake, February 9, 1971," Bull. Seism. Soc. Amer., v. 63, n. 1, 299-313.
- Proctor, R. J., R. Crook, Jr., M. H. McKeown, and R. L. Moresco (June, 1972). "Relation of Known Faults to Surface Ruptures, 1971 San Fernando Earthquake, Southern California," Bull. Geol. Soc. Amer., v. 83, 1601-1618.
- Scott, R. F. (October, 1973). "The Calculation of Horizontal Accelerations from Seismoscope Records," Bull. Seism. Soc. Amer., v. 63, n. 5, 1637-1661.
- Steinbrugge, K. V., et al (August, 1971). "The San Fernando Earthquake, February 9, 1971," Pacific Fire Rating Bureau, 465 California Street, San Francisco, California.
- Thatcher, W. and T. C. Hanks (December, 1973). "Source Parameters of Southern California Earthquakes," J. Geop. Res., v. 78, n. 35, 8547-76.
- Trifunac, M. D. (June, 1972). "Stress Estimates for the San Fernando, California, Earthquake of February 9, 1971: Main Event and Thirteen Aftershocks," Bull. Seism. Soc. Amer., v. 62, n. 3, 721-750.
- Trifunac, M. D. and D. E. Hudson (October, 1971). "Analysis of the Pacoima Dam Accelerogram," Bull. Seism. Soc. Amer., v. 61, n. 5, 1393-1411.
- Trifunac, M. D. (February, 1974). "A Three-Dimensional Dislocation Model for the San Fernando, California, Earthquake of February 9, 1971," Bull. Seism. Soc. Amer., v. 64, n. 1, 149-172.
- U.S. Department of Commerce (March, 1971). "The San Fernando, California, Earthquake of February 9, 1971," National Bureau of Standards Report 10556.

- U. S. Department of Commerce (December, 1971). "Engineering Aspects of the 1971 San Fernando Earthquake," Building Science Series 40, National Bureau of Standards.
- U. S. Geological Survey and the National Oceanic and Atmospheric Administration. "The San Fernando, California, Earthquake of February 9, 1971," Geological Survey Professional Paper 733, (preliminary report).

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111M176 71.035.0 1150 SOUTH HILL STREET, SUB-BASEMENT, LOS ANGELES, CAL. COMP N37E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

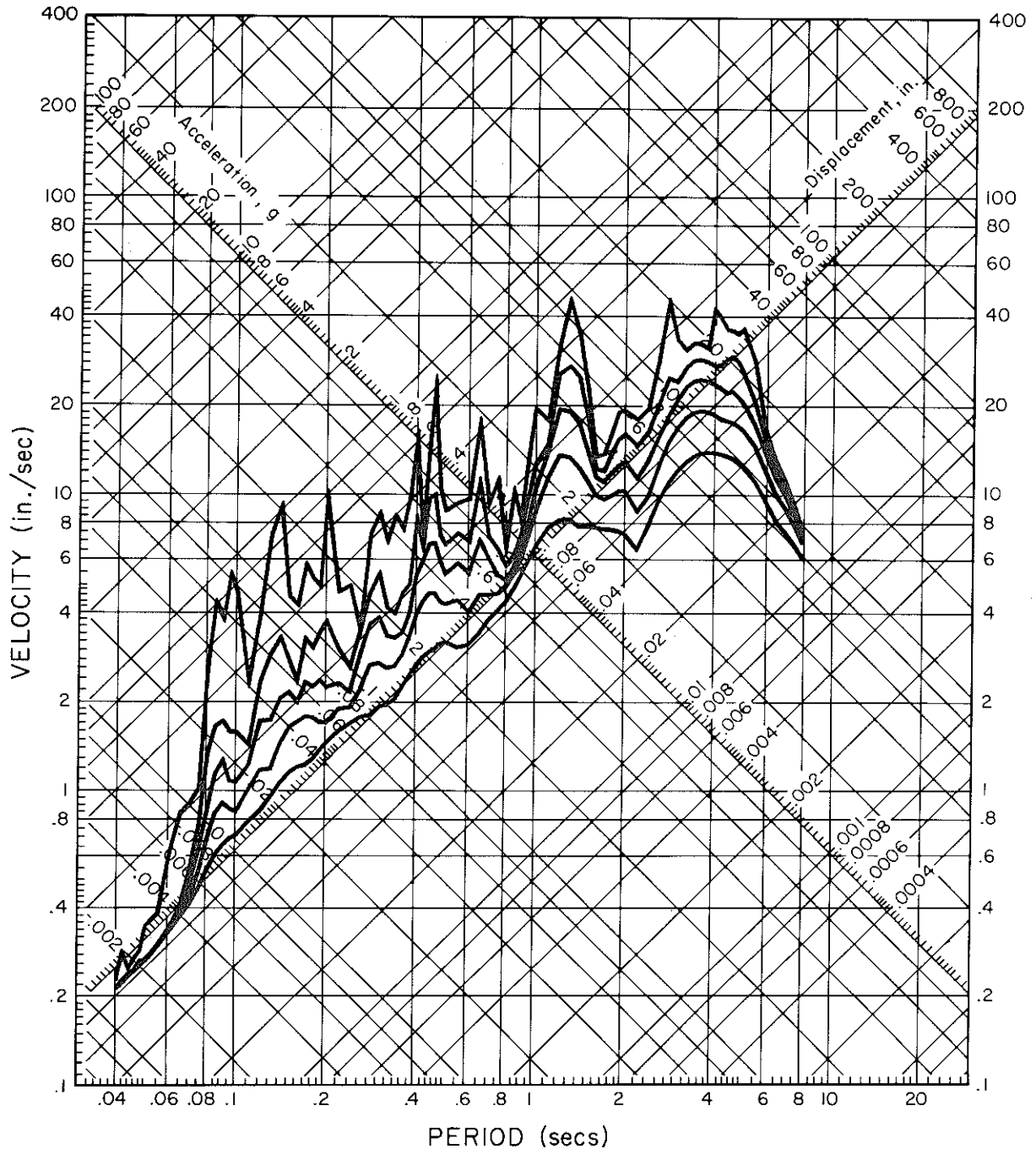


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIM176 71.035.0 1150 SOUTH HILL STREET, SUB-BASEMENT, LOS ANGELES, CAL. COMP N37E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



CAL. COMP N37E

SD AND G FOR SA

DAMPING = 20 PER CENT

SD	SV	SA	PS
1133-5	574-4	857-4	210
1147-5	636-4	857-4	221
1162-5	706-4	860-4	232
1178-5	782-4	862-4	243
1194-5	863-4	866-4	254
1212-5	949-4	869-4	266
12261-5	118-3	886-4	298
3318-5	145-3	909-4	333
3383-5	180-3	935-4	370
4457-5	229-3	964-4	410
5557-5	283-3	104-3	467
6684-5	346-3	112-3	537
8815-5	390-3	120-3	602
9934-5	427-3	122-3	652
103-4	460-3	122-3	682
112-4	512-3	121-3	705
1137-4	600-3	119-3	783
162-4	684-3	122-3	850
197-4	692-3	126-3	952
2237-4	849-3	130-3	106
2274-4	994-3	133-3	115
3305-4	107-2	130-3	120
3329-4	115-2	124-3	121
366-4	117-2	118-3	128
4415-4	115-2	120-3	137
462-4	119-2	121-3	145
556-4	137-2	120-3	158
644-4	149-2	119-3	168
735-4	160-2	115-3	177
804-4	159-2	109-3	180
918-4	153-2	111-3	192
994-4	156-2	105-3	195
111-3	173-2	102-3	205
129-3	185-2	107-3	225
149-3	193-2	110-3	246
169-3	211-2	112-3	266
189-3	223-2	114-3	283
207-3	229-2	113-3	295
221-3	234-2	111-3	302
240-3	235-2	112-3	314
254-3	232-2	110-3	320
268-3	274-2	988-4	307
299-3	297-2	913-4	313
356-3	286-2	935-4	344
427-3	271-2	968-4	383

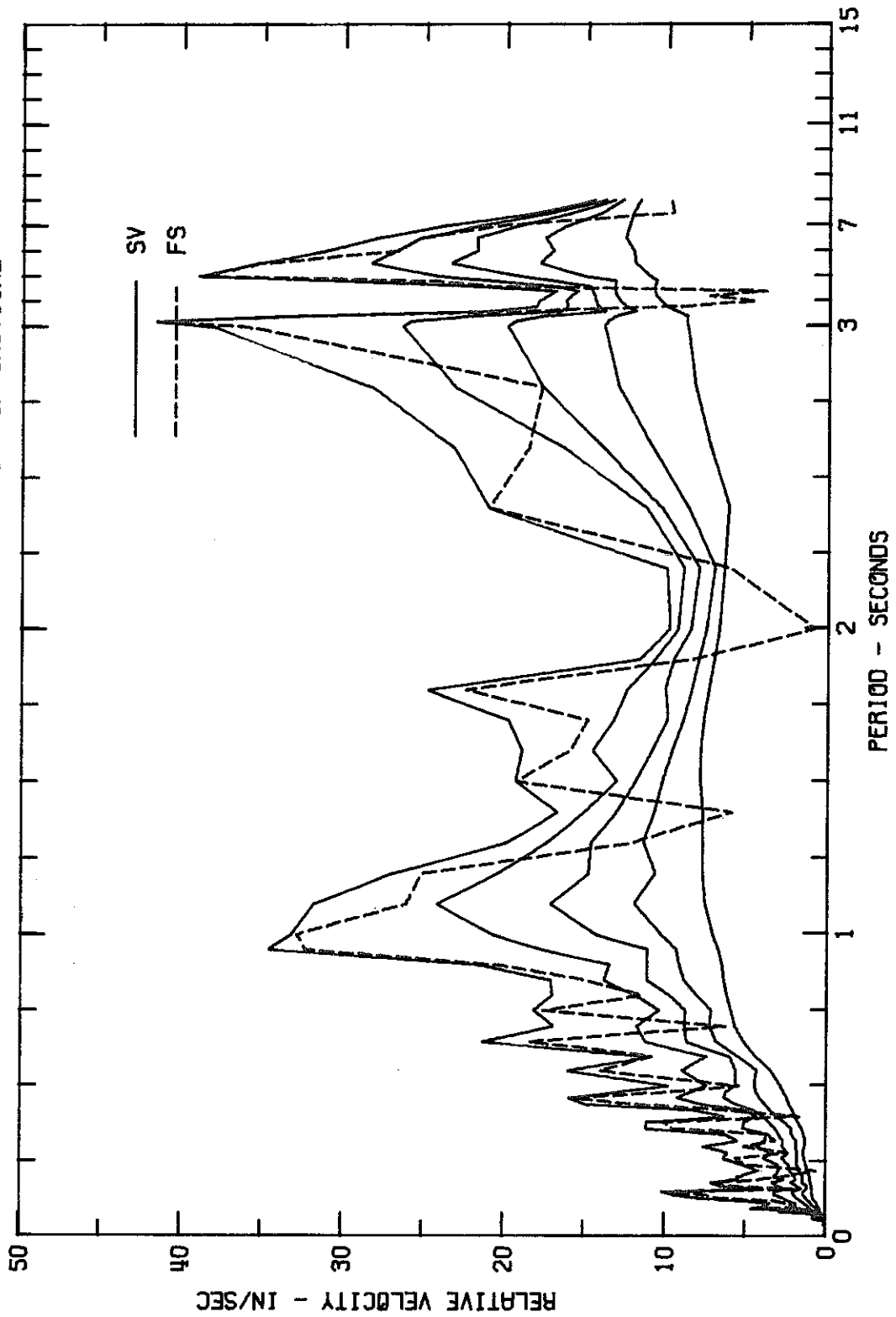
THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT										DAMPING = 2 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PERCENT										DAMPING = 20 PER CENT									
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV												
0.75	861-2	135-2	108-1	246-3	113-1	787-3	614-2	143-3	659-2	643-3	509-2	117-3	538-2	558-3	401-2	104-3	467-2	490-3	305-2	973-4	411-2																												
0.80	455-2	839-3	653-2	134-3	659-2	739-3	563-2	118-3	580-2	661-3	478-2	105-3	519-2	632-3	427-2	101-3	496-2	561-3	337-2	972-4	441-2																												
0.85	932-2	140-2	100-1	199-3	104-1	853-3	605-2	121-3	631-2	782-3	530-2	110-3	578-2	742-3	470-2	106-3	548-2	662-3	369-2	981-4	489-2																												
0.90	641-2	118-2	747-2	149-3	826-2	107-2	628-2	136-3	753-2	981-3	537-2	124-3	684-2	881-3	523-2	112-3	615-2	780-3	403-2	103-3	545-2																												
0.95	956-2	203-2	122-1	230-3	134-1	150-2	803-2	170-3	993-2	123-2	711-2	141-3	819-2	110-2	615-2	127-3	733-2	919-3	468-2	109-3	608-2																												
1.00	196-1	313-2	196-1	320-3	196-1	205-2	122-1	209-3	128-1	168-2	954-2	173-3	106-1	140-2	720-2	145-3	882-2	107-2	556-2	116-3	674-2																												
1.10	172-1	314-2	178-1	265-3	179-1	263-2	135-1	223-3	150-1	247-2	117-1	209-3	141-1	203-2	101-1	175-3	116-1	137-2	729-2	125-3	784-2																												
1.20	311-1	625-2	313-1	444-3	327-1	495-2	239-1	352-3	259-1	374-2	184-1	267-3	196-1	262-2	132-1	190-3	137-1	158-2	845-2	123-3	829-2																												
1.30	456-1	947-2	457-1	573-3	457-1	568-2	266-1	344-3	274-1	398-2	196-1	241-3	192-1	279-2	142-1	171-3	135-1	172-2	903-2	113-3	832-2																												
1.40	328-1	786-2	350-1	410-3	352-1	559-2	250-1	292-3	251-1	390-2	173-1	204-3	175-1	277-2	131-1	146-3	124-1	175-2	910-2	100-3	788-2																												
1.50	207-1	548-2	225-1	249-3	229-1	434-2	174-1	197-3	181-1	337-2	147-1	154-3	141-1	266-2	116-1	123-3	111-1	189-2	865-2	906-4	793-2																												
1.60	495-2	344-2	119-1	137-3	135-1	314-2	119-1	125-3	123-1	294-2	118-1	118-3	115-1	256-2	106-1	104-3	100-1	199-2	811-2	858-4	783-2																												
1.70	104-1	374-2	121-1	132-3	138-1	328-2	117-1	116-3	121-1	302-2	113-1	107-3	111-1	264-2	101-1	953-4	976-2	209-2	771-2	807-4	775-2																												
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2.00	118-1	615-2	187-1	157-3	193-1	515-2	161-1	131-3	162-1	415-2	133-1	106-3	130-1	330-2	102-1	866-4	103-1	236-2	741-2	661-4	742-2																												
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2.40	146-1	754-2	173-1	133-3	197-1	633-2	147-1	112-3	165-1	507-2	119-1	903-4	132-1	383-2	963-2	687-4	100-1	304-2	781-2	556-4	797-2																												
2.60	188-1	119-1	279-1	180-3	288-1	850-2	194-1	128-3	205-1	660-2	138-1	100-3	159-1	526-2	109-1	809-4	127-1	403-2	803-2	637-4	975-2																												
2.80	433-1	202-1	454-1	263-3	453-1	111-1	253-1	145-3	250-1	839-2	174-1	109-3	188-1	681-2	132-1	905-4	152-1	498-2	960-2	688-4	111-1																												
3.00	258-1	160-1	341-1	182-3	336-1	116-1	241-1	132-3	243-1	101-1	191-1	116-3	212-1	819-2	150-1	949-4	171-1	586-2	107-1	713-4	122-1																												
3.20	284-1	158-1	311-1	158-3	311-1	138-1	267-1	138-3	272-1	118-1	219-1	119-3	233-1	941-2	171-1	958-4	184-1	667-2	122-1	717-4	131-1																												
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4.00	427-1	272-1	428-1	173-3	427-1	176-1	273-1	112-3	276-1	151-1	246-1	976-4	238-1	120-1	207-1	782-4	188-1	894-2	150-1	627-4	140-1																												
4.20	383-1	267-1	399-1	154-3	399-1	184-1	285-1	107-3	290-1	154-1	241-1	901-4	231-1	121-1	202-1	723-4	182-1	930-2	150-1	592-4	139-1																												
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6.00	913-2	158-1	213-1	449-4	165-1	146-1	204-1	416-4	153-1	132-1	192-1	380-4	139-1	115-1	174-1	340-4	120-1	913-2	150-1	297-4	956-2																												
6.50	709-2	135-1	178-1	328-4																																													

RELATIVE VELOCITY RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111M176 71.035.0 1150 SOUTH HILL STREET, SUB-BASEMENT, LOS ANGELES, CAL. COMP 553E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

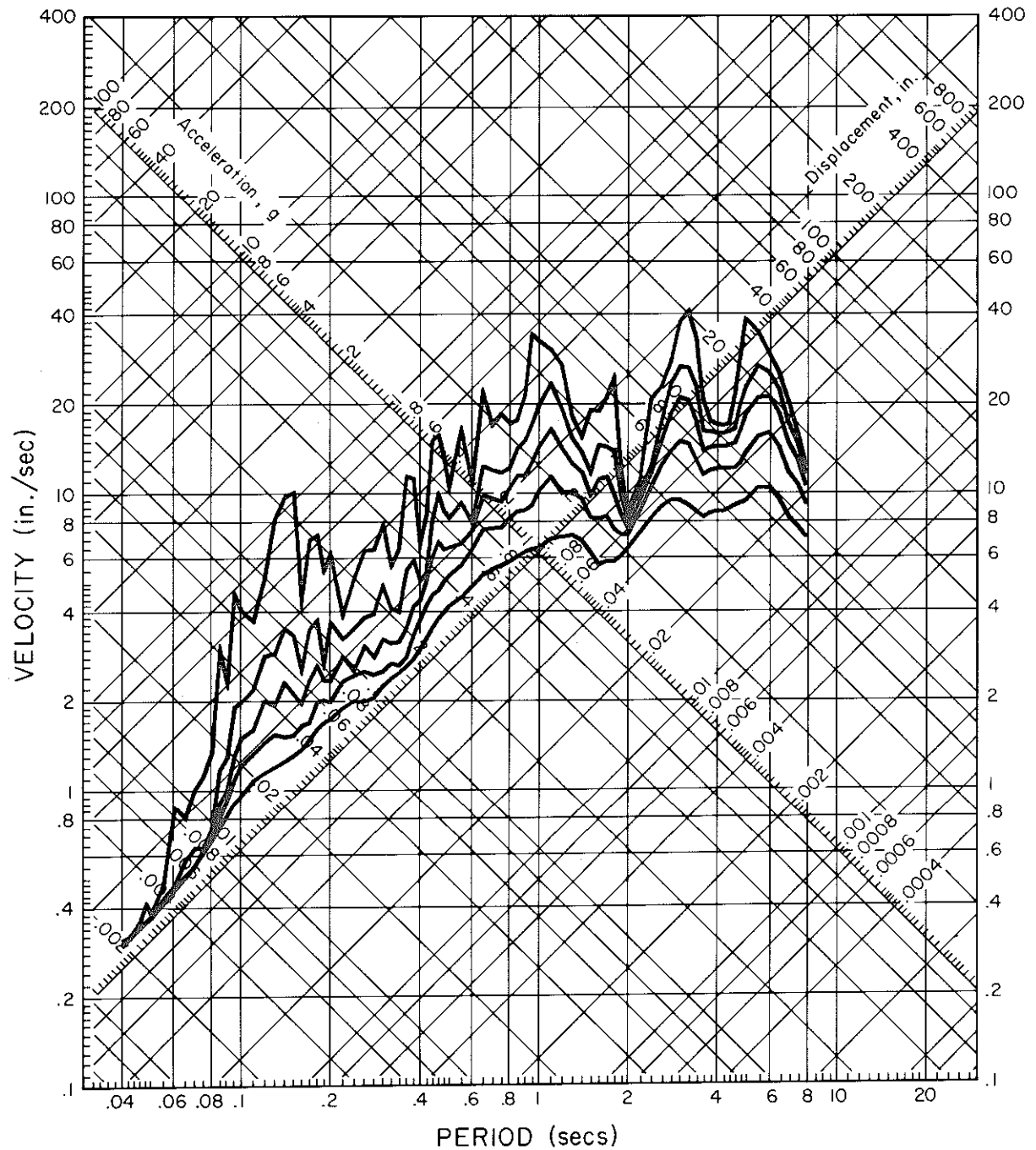


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

11IM176 71.035.0 1150 SOUTH HILL STREET, SUB-BASEMENT, LOS ANGELES, CAL. COMP S53E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



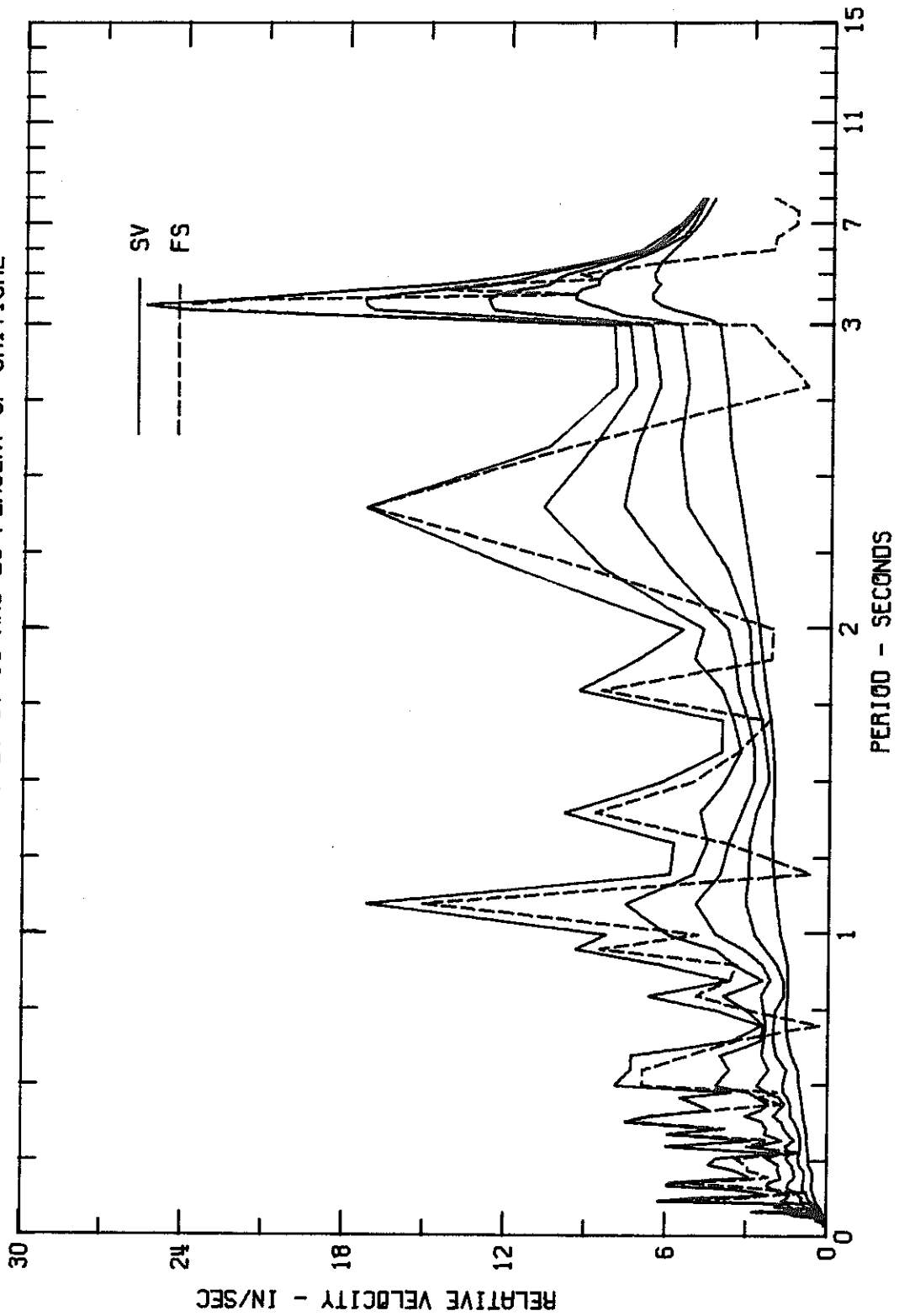
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIM176 71.035.0 1150 SOUTH HILL STREET, SUB-BASEMENT, LOS ANGELES, CAL. COMP \$53E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PERCENT				DAMPING = 20 PER CENT				
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0.040	411-4	159-5	803-4	127-3	313-3	194-5	532-4	124-3	305-3	194-5	538-4	124-3	304-3	193-5	537-4	123-3	303-3	191-5	534-4	123-3	301-3
0.042	298-4	214-5	800-4	124-3	321-3	215-5	599-4	124-3	321-3	214-5	595-4	124-3	320-3	213-5	593-4	123-3	319-3	211-5	590-4	123-3	317-3
0.044	241-4	237-5	801-4	125-3	339-3	239-5	639-4	126-3	341-3	235-5	648-4	124-3	336-3	234-5	651-4	123-3	334-3	232-5	650-4	123-3	332-3
0.046	224-4	269-5	105-3	130-3	368-3	254-5	779-4	122-3	347-3	255-5	728-4	123-3	349-3	255-5	713-4	123-3	349-3	254-5	716-4	123-3	348-3
0.048	506-4	320-5	129-3	142-3	419-3	278-5	783-4	123-3	365-3	277-5	801-4	123-3	363-3	277-5	799-4	123-3	363-3	278-5	787-4	123-3	363-3
0.050	101-3	405-5	119-3	125-3	384-3	302-5	952-4	123-3	380-3	299-5	915-4	122-3	374-3	300-5	894-4	123-3	378-3	302-5	866-4	124-3	379-3
0.055	904-4	426-5	188-3	144-3	486-3	381-5	127-3	131-3	435-3	372-5	118-3	125-3	424-3	369-5	115-3	125-3	422-3	369-5	108-3	125-3	421-3
0.060	786-3	844-5	803-3	239-3	884-3	462-5	128-3	145-3	484-3	451-5	173-3	126-3	473-3	448-5	144-3	127-3	469-3	444-5	133-3	127-3	465-3
0.065	166-4	841-5	459-3	203-3	812-3	602-5	256-3	145-3	582-3	537-5	215-3	130-3	519-3	530-5	184-3	128-3	512-3	529-5	158-3	129-3	511-3
0.070	730-3	113-4	813-3	237-3	102-2	715-5	322-3	149-3	642-3	617-5	233-3	128-3	654-3	624-5	222-3	130-3	630-3	740-5	231-3	136-3	620-3
0.075	759-3	136-4	995-3	247-3	113-2	766-5	370-3	139-3	642-3	761-5	316-3	138-3	638-3	752-5	277-3	133-3	705-3	872-5	284-3	141-3	685-3
0.080	384-3	174-4	108-2	278-3	136-2	955-5	544-3	153-3	750-3	870-5	442-3	139-3	683-3	898-5	461-3	156-3	813-3	102-4	335-3	146-3	756-3
0.085	211-2	408-4	292-2	577-3	301-2	160-4	943-3	226-3	118-2	123-4	658-3	175-3	911-3	110-4	632-3	172-3	943-3	119-4	377-3	153-3	833-3
0.090	837-3	332-4	210-2	420-3	232-2	188-4	119-2	239-3	131-2	145-4	860-3	186-3	101-2	135-4	632-3	190-3	110-2	137-4	424-3	159-3	912-3
0.095	462-2	703-4	463-2	797-3	465-2	292-4	175-2	330-3	193-2	201-4	103-2	227-3	133-2	166-4	632-3	190-3	110-2	137-4	424-3	159-3	912-3
0.100	192-2	651-4	391-2	665-3	409-2	319-4	185-2	324-3	200-2	241-4	105-2	246-3	151-2	195-4	704-3	200-3	122-2	154-4	471-3	163-3	971-3
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0.150	101-1	244-3	101-1	110-2	102-1	651-4	403-2	261-3	255-2	503-4	152-2	202-3	197-2	426-4	120-2	172-3	167-2	354-4	869-3	146-3	139-2
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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111M176 71.035.0 1150 SOUTH HILL STREET, SUB-BASEMENT, LOS ANGELES, CAL. COMP DOWN
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

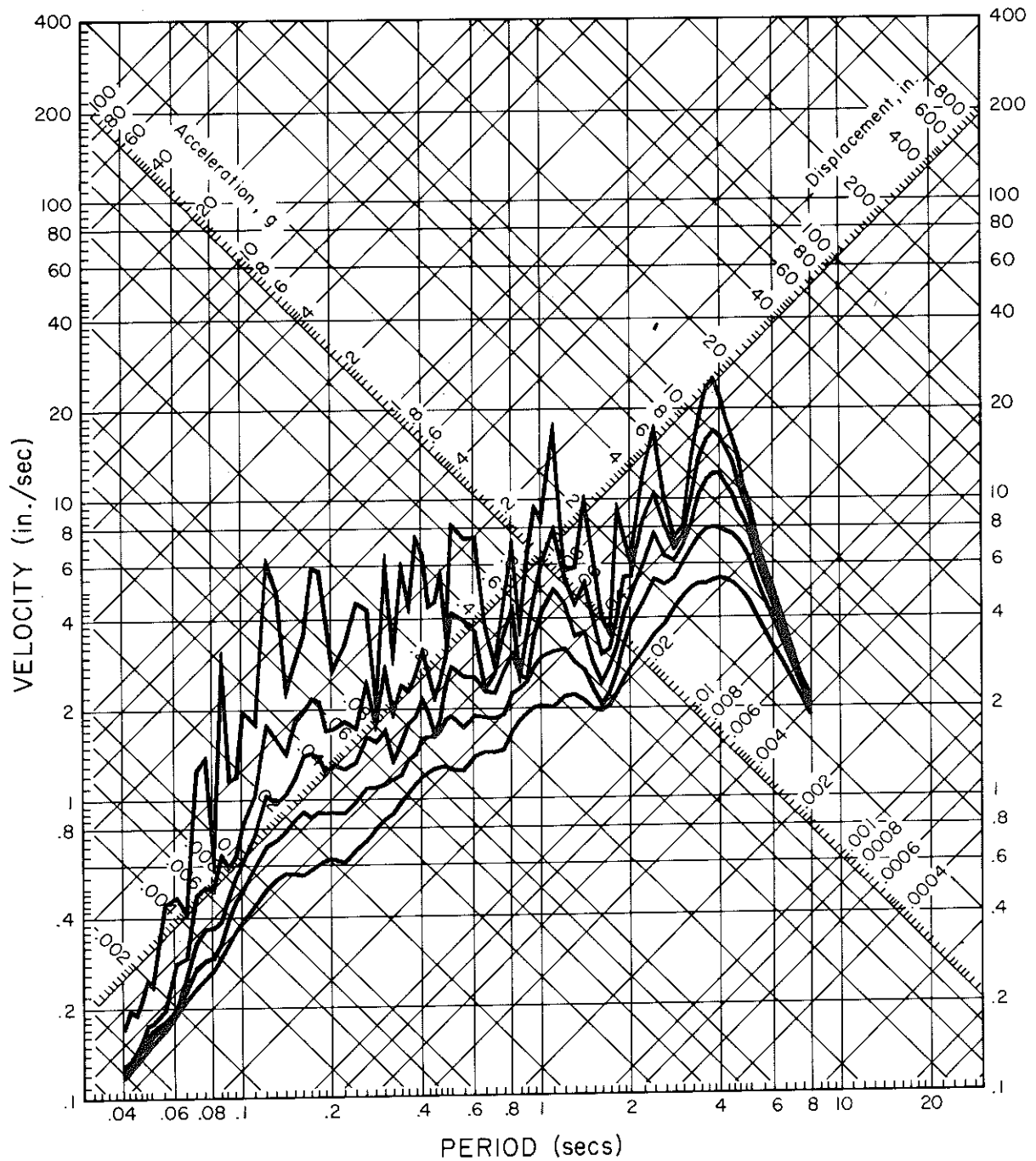


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

11IM176 71.035.0 1150 SOUTH HILL STREET, SUB-BASEMENT, LOS ANGELES, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

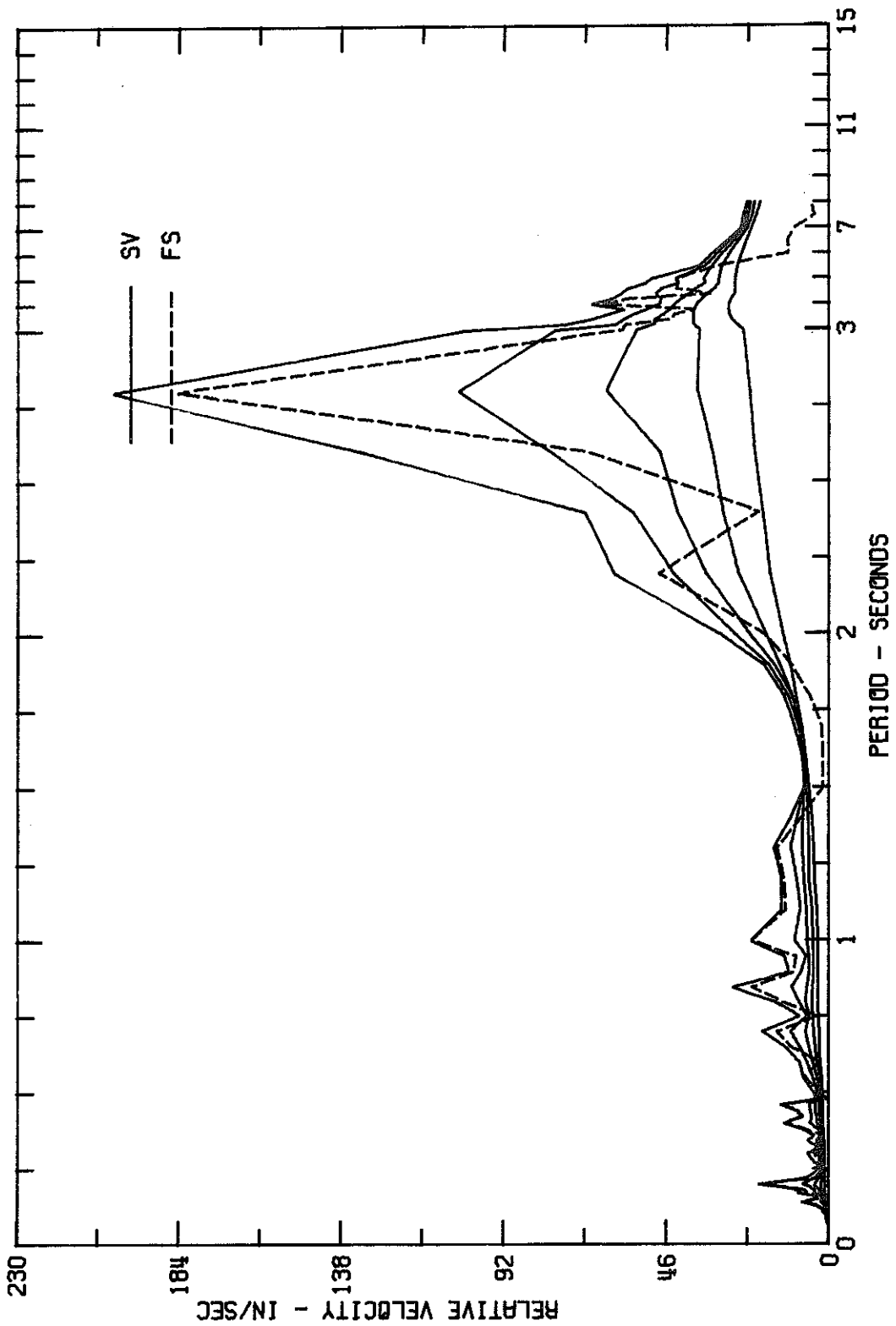


THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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0.80	493-2	902-3	670-2	144-3	708-2	560-3	391-2	896-4	440-2	391-3	251-2	627-4	307-2	290-3	166-2	469-4	227-2	216-3
0.85	368-2	513-3	372-2	726-4	379-2	350-3	244-2	495-4	259-2	355-3	216-2	505-4	262-2	320-3	168-2	459-4	236-2	250-3
0.90	335-2	946-3	621-2	119-3	660-2	515-3	351-2	652-4	360-2	363-3	247-2	460-4	253-2	358-3	192-2	459-4	250-2	281-3
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1.00	484-2	136-2	826-2	140-3	860-2	982-3	598-2	100-3	617-2	679-3	422-2	698-4	427-2	480-3	239-2	499-4	301-2	372-4
1.05	150-1	302-2	172-1	255-3	172-1	141-2	756-2	119-3	807-2	893-3	497-2	758-4	510-2	551-3	310-2	476-4	315-2	357-3
1.10	691-3	112-2	590-2	796-4	588-2	105-2	501-2	749-4	551-2	866-3	402-2	618-4	453-2	612-3	298-2	441-4	320-2	425-3
1.15	385-2	123-2	576-2	748-4	597-2	937-3	455-2	567-4	453-2	731-3	374-2	444-4	353-2	598-3	296-2	371-4	289-2	464-3
1.20	870-2	223-2	985-2	116-3	100-1	119-2	481-2	621-4	534-2	815-3	325-2	427-4	368-2	607-3	270-2	322-4	272-2	479-3
1.25	509-2	150-2	626-2	686-4	632-2	945-3	385-2	429-4	396-2	681-3	280-2	311-4	285-2	558-3	227-2	257-4	233-2	480-3
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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111M177 71.034.0 1150 SOUTH HILL STREET, 5TH FLOOR, LOS ANGELES, CAL. COMP N37E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

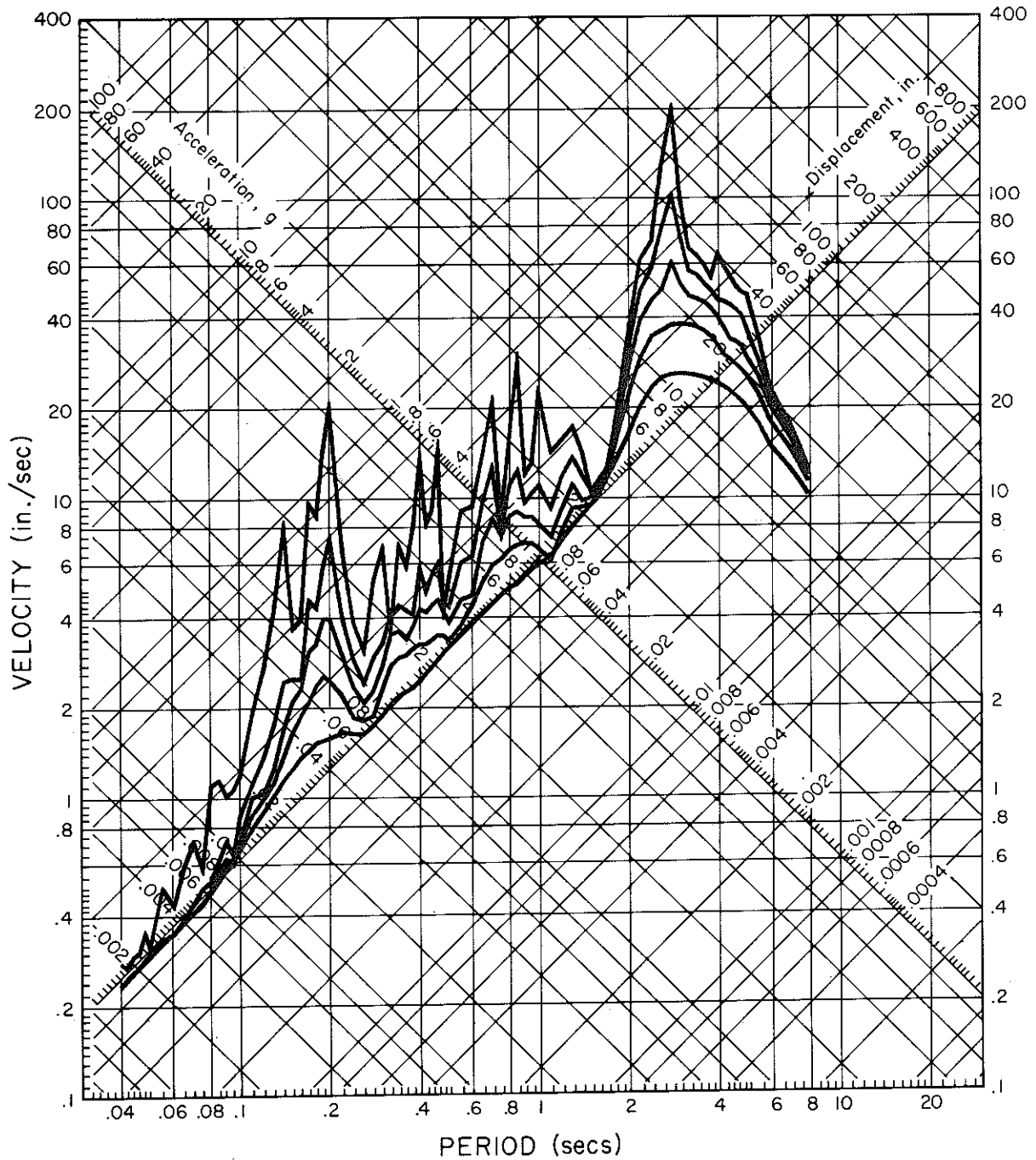


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SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111M177 71.034.0 1150 SOUTH HILL STREET, 5TH FLOOR, LOS ANGELES, CAL. COMP N37E

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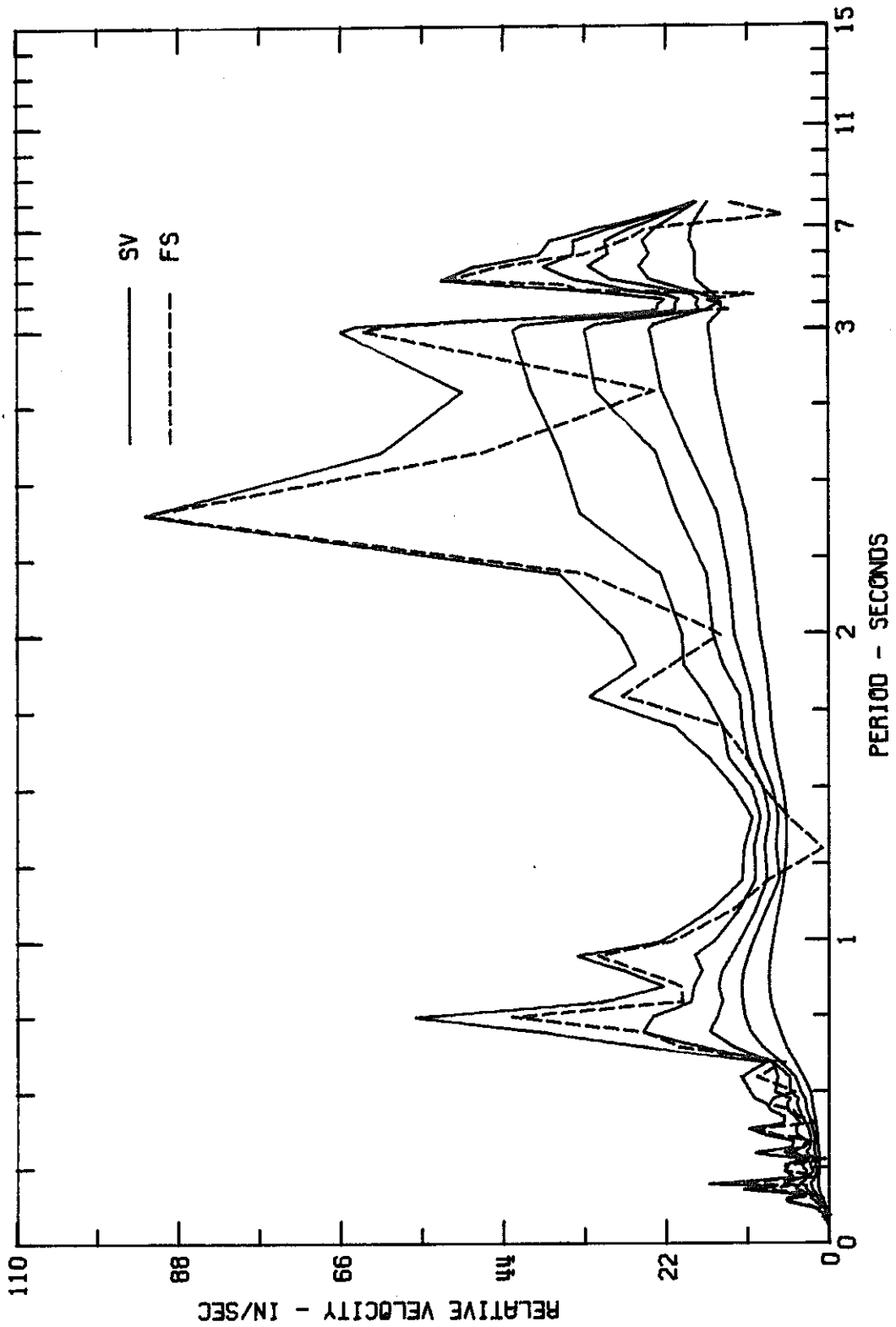


IIIM177 71.034.0 1150 SOUTH HILL STREET, 5TH FLOOR, LCS ANGELES, CAL. COMP N37E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT										DAMPING = 2 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PER CENT										DAMPING = 20 PER CENT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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111M177 71.034.0 1150 SOUTH HILL STREET, 5TH FLOOR, LOS ANGELES, CAL. COMP S53E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

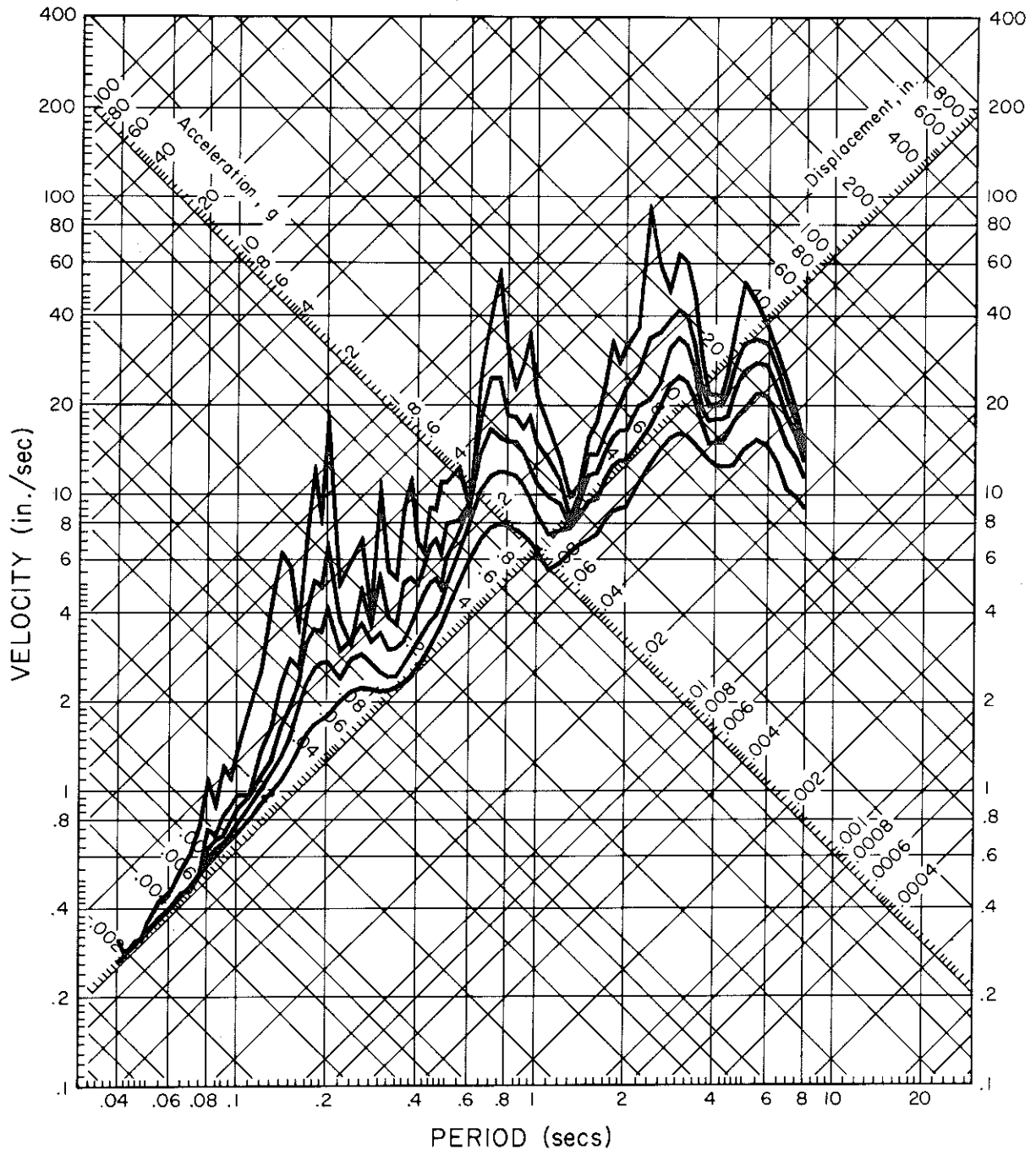


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

11IM177 71.034.0 1150 SOUTH HILL STREET, 5TH FLOOR, LOS ANGELES, CAL. COMP S53E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
 I11M177 71.034.0 1150 SOUTH HILL STREET, 5TH FLOOR, LOS ANGELES, CAL. COMP S53E

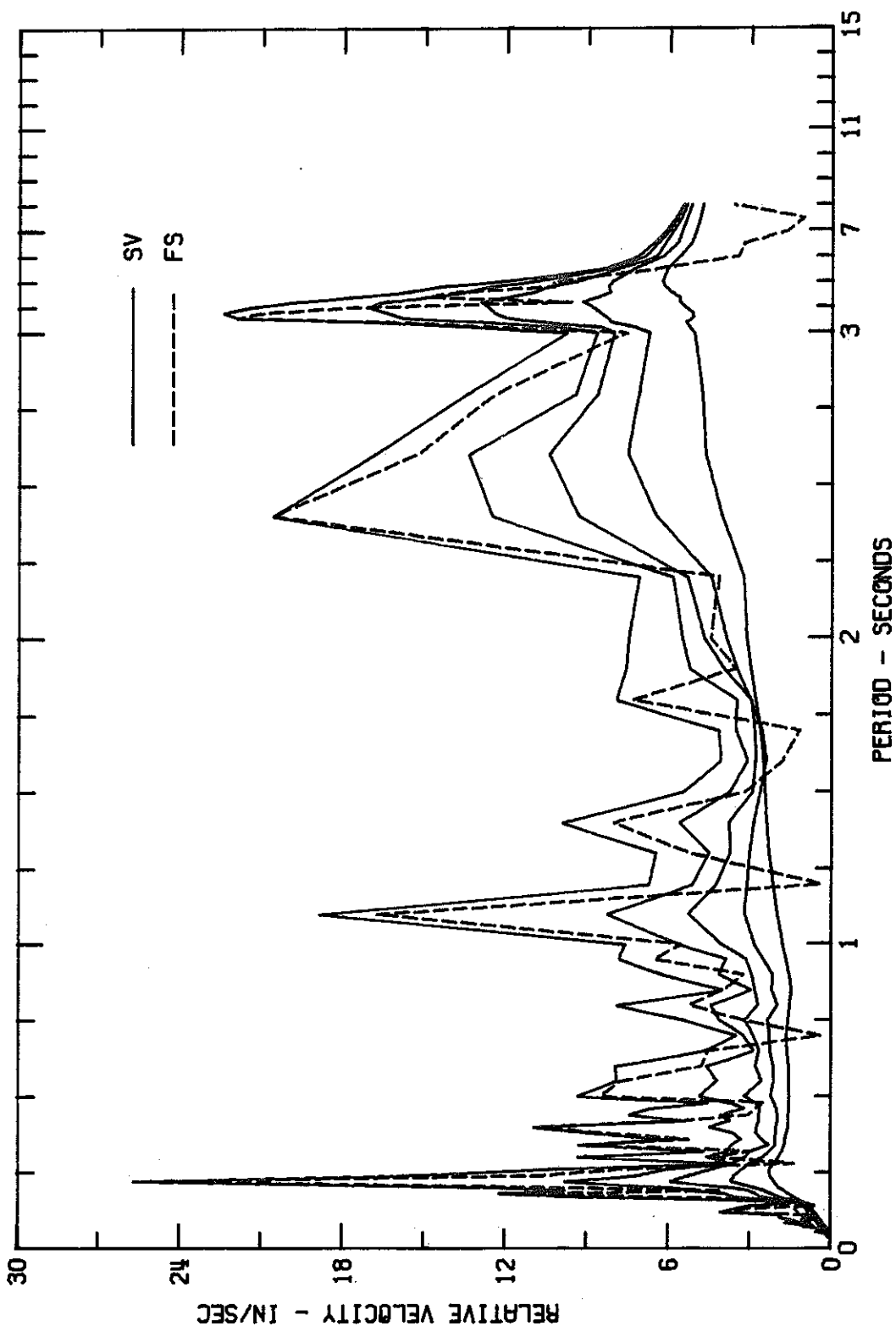
THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT			
	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA
0.040	255-4	199-5	986-4	127-3	313-3	166-5	503-4	106-3	262-3	167-5	493-4	106-3	262-3	167-5	495-4	107-3	263-3	167-5	495-4	107-3
0.042	441-5	189-5	551-4	109-3	283-3	185-5	525-4	107-3	277-3	185-5	538-4	107-3	277-3	185-5	548-4	107-3	277-3	185-5	548-4	107-3
0.044	291-4	206-5	660-4	108-3	294-3	204-5	554-4	107-3	291-3	204-5	599-4	107-3	291-3	204-5	609-4	107-3	291-3	204-5	609-4	107-3
0.046	666-4	229-5	802-4	110-3	313-3	222-5	685-4	107-3	303-3	223-5	684-4	108-3	305-3	223-5	681-4	108-3	305-3	223-5	681-4	108-3
0.048	325-4	241-5	114-3	107-3	316-3	246-5	827-4	109-3	323-3	245-5	781-4	109-3	321-3	244-5	759-4	108-3	320-3	243-5	733-4	108-3
0.050	883-4	286-5	138-3	117-3	360-3	268-5	901-4	109-3	337-3	267-5	865-4	109-3	335-3	266-5	838-4	108-3	334-3	265-5	801-4	108-3
0.055	423-4	374-5	139-3	126-3	427-3	330-5	107-3	111-3	377-3	325-5	106-3	110-3	372-3	325-5	103-3	109-3	371-3	323-5	581-4	109-3
0.060	121-3	443-5	166-3	125-3	464-3	389-5	130-3	110-3	407-3	392-5	132-3	111-3	410-3	392-5	127-3	111-3	410-3	388-5	119-3	110-3
0.065	120-3	564-5	237-3	136-3	545-3	472-5	183-3	114-3	457-3	468-5	165-3	113-3	453-3	464-5	153-3	112-3	448-3	459-5	142-3	111-3
0.070	136-3	693-5	277-3	144-3	622-3	517-5	202-3	108-3	464-3	526-5	175-3	109-3	472-3	536-5	175-3	112-3	481-3	538-5	165-3	113-3
0.075	282-3	915-5	527-3	166-3	767-3	630-5	251-3	114-3	528-3	635-5	221-3	115-3	532-3	635-5	226-3	115-3	532-3	626-5	190-3	114-3
0.080	495-3	139-4	631-3	222-3	109-2	949-5	289-3	151-3	745-3	823-5	252-3	131-3	646-3	758-5	235-3	121-3	595-3	722-5	217-3	116-3
0.085	324-3	121-4	515-3	171-3	896-3	967-5	270-3	137-3	714-3	934-5	272-3	132-3	690-3	870-5	265-3	124-3	643-3	821-5	248-3	117-3
0.090	810-3	175-4	891-3	221-3	122-2	119-4	358-3	150-3	833-3	101-4	313-3	129-3	712-3	960-5	297-3	121-3	670-3	927-5	279-3	118-3
0.095	601-3	167-4	767-3	190-3	111-2	135-4	434-3	153-3	894-3	120-4	344-3	136-3	794-3	108-4	329-3	123-3	718-3	103-4	311-3	118-3
0.100	523-3	219-4	891-3	224-3	138-2	155-4	558-3	159-3	979-3	139-4	460-3	142-3	874-3	124-4	377-3	127-3	783-3	115-4	345-3	118-3
0.110	882-3	341-4	157-2	288-3	194-2	170-4	615-3	144-3	976-3	169-4	506-3	143-3	967-3	156-4	454-3	134-3	894-3	141-4	421-3	122-3
0.120	171-2	494-4	217-2	351-3	258-2	263-4	919-3	186-3	137-2	217-4	765-3	154-3	113-2	195-4	567-3	139-3	102-2	173-4	504-3	125-3
0.130	393-2	903-4	411-2	546-3	436-2	342-4	155-2	205-3	165-2	265-4	112-2	161-3	128-2	241-4	849-3	147-3	116-2	207-4	624-3	128-3
0.140	539-2	143-3	582-2	749-3	644-2	521-4	199-2	271-3	234-2	273-4	154-2	195-3	167-2	294-4	110-2	156-3	132-2	244-4	786-3	130-3
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0.190	555-2	258-3	829-2	733-3	856-2	149-3	422-2	424-3	454-2	105-3	312-2	303-3	349-2	831-4	251-2	240-3	275-2	530-4	160-2	158-3
0.200	132-1	564-3	164-1	144-2	177-1	215-3	616-2	553-3	677-2	133-3	397-2	349-3	420-2	878-4	259-2	234-3	276-2	576-4	157-2	150-3
0.220	178-2	176-3	485-2	372-3	504-2	133-3	351-2	281-3	381-2	105-3	278-2	228-3	301-2	853-4	194-2	186-3	243-2	711-4	153-2	157-3
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0.260	554-2	296-3	603-2	449-3	717-2	200-3	376-2	305-3	483-2	154-3	267-2	235-3	373-2	121-3	193-2	184-3	294-2	934-4	135-2	148-3
0.280	520-3	182-3	341-2	237-3	409-2	163-3	285-2	214-3	367-2	144-3	230-2	190-3	324-2	122-3	176-2	159-3	274-2	997-4	142-2	135-3
0.300	644-2	504-3	100-1	573-3	105-1	256-3	354-2	198-3	390-2	154-3	265-2	154-3	304-2	125-3	208-2	126-3	246-2	105-3	150-2	124-3
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0.360	757-2	526-3	866-2	415-3	919-2	293-3	441-2	232-3	512-2	186-3	271-2	148-3	324-2	155-3	217-2	125-3	271-2	134-3	175-2	110-3
0.380	969-2	684-3	109-1	484-3	113-1	323-3	451-2	228-3	534-2	222-3	322-2	179-3	367-2	179-3	239-2	129-3	296-2	149-3	183-2	110-3
0.400	181-2	449-3	607-2	287-3	705-2	320-3	400-2	203-3	503-2	227-3	322-2	170-3	419-2	206-3	260-2	133-3	323-2	168-3	190-2	113-3
0.420	443-2	434-3	612-2	252-3	650-2	391-3	475-2	226-3	586-2	314-3	376-2	182-3	471-2	235-3	335-2	137-3	352-2	191-3	204-2	116-3
0.440	496-2	646-3	794-2	341-3	923-2	480-3	561-2	255-3	686-2	360-3	409-2	190-3	514-2	265-3	311-2	141-3	379-2	218-3	221-2	121-3
0.460	816-2	661-3	857-2	319-3	902-2	529-3	581-2	255-3	722-2	388-3	447-2	188-3	530-2	292-3	325-2	143-3	399-2	248-3	232-2	127-3
0.480	760-2	864-3	101-1	383-3	113-1	493-3	537-2	219-3	645-2	375-3	418-2	168-3	491-2	335-3	336-2	151-3	438-2	280-3	245-2	132-3
0.500	471-2	892-3	106-1	365-3	112-1	649-3	738-2	265-3	816-2	495-3	528-2	204-3	622-2	400-3	390-2	166-3	503-2	322-3	262-2	137-3
0.550	980-2	110-2	118-1	373-3	126-1	730-3	693-2	246-3	834-2	668-3	545-2	226-3	763-2	573-3	462-2	196-3	654-2	448-3	354-2	157-3
0.600	604-2	870-3	842-2	247-3	911-2	928-3	778-2	263-3	971-2	907-3	776-2	258-3	950-2	793-3	663-2	228-3	830-2	596-3	467-2	175-3
0.650	203-1	268-2	248-1	649-3	259-1	189-2	173-1	459-3	183-1	147-2	129-1	358-3	142-1	109-2	908-2	269-3	106-1	750-3	585-2	190-3
0.700	252-1	453-2	387-1	947-3	407-1	281-2	252-1	588-3	252-1	188-2	162-1	395-3	169-1	131-2	106-1	278-3	117-1	881-3	663-2	195-3

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
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0.80	198-1	391-2	306-1	625-3	307-1	240-2	186-1	384-3	188-1	195-2	144-1	314-3	153-1	154-2	117-1	250-3	120-1
0.85	200-1	316-2	224-1	447-3	233-1	251-2	183-1	357-3	186-1	208-2	150-1	296-3	154-1	159-2	119-1	230-3	117-1
0.90	255-1	400-2	276-1	505-3	279-1	244-2	171-1	308-3	170-1	203-2	145-1	258-3	142-1	157-2	116-1	203-3	109-1
0.95	313-1	525-2	341-1	595-3	347-1	282-2	182-1	320-3	187-1	188-2	132-1	215-3	124-1	149-2	109-1	173-3	991-2
1.00	212-1	351-2	227-1	359-3	220-1	241-2	155-1	247-3	151-1	177-2	121-1	182-3	111-1	141-2	102-1	146-3	886-2
1.10	132-1	299-2	161-1	253-3	171-1	232-2	122-1	196-3	132-1	174-2	992-2	148-3	998-2	130-2	848-2	113-3	748-2
1.20	819-2	257-2	117-1	182-3	134-1	217-2	994-2	154-3	113-1	181-2	841-2	129-3	950-2	148-2	674-2	107-3	775-2
1.30	894-3	207-2	114-1	125-3	100-1	177-2	101-1	107-3	856-2	165-2	871-2	100-3	797-2	162-2	720-2	100-3	785-2
1.40	540-2	247-2	103-1	129-3	111-1	230-2	924-2	120-3	103-1	215-2	810-2	112-3	965-2	193-2	689-2	103-3	869-2
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1.60	113-1	463-2	163-1	185-3	182-1	353-2	137-1	141-3	138-1	308-2	110-1	123-3	121-1	252-2	930-2	103-3	990-2
1.70	144-1	644-2	209-1	228-3	238-1	445-2	145-1	157-3	164-1	383-2	118-1	136-3	141-1	310-2	101-1	112-3	114-1
1.80	280-1	953-2	325-1	301-3	332-1	530-2	167-1	167-3	185-1	450-2	121-1	144-3	159-1	365-2	105-1	117-3	127-1
1.90	213-1	861-2	261-1	244-3	284-1	629-2	197-1	178-3	208-1	508-2	144-1	143-3	168-1	403-2	117-1	116-3	133-1
2.00	146-1	102-1	281-1	262-3	322-1	746-2	199-1	190-3	234-1	534-2	157-1	137-3	167-1	424-2	128-1	110-3	133-1
2.20	329-1	131-1	365-1	276-3	374-1	933-2	229-1	197-3	266-1	713-2	166-1	151-3	203-1	536-2	136-1	115-3	153-1
2.40	925-1	353-1	925-1	627-3	925-1	132-1	338-1	234-3	346-1	819-2	206-1	146-3	214-1	663-2	152-1	119-3	173-1
2.60	467-1	249-1	605-1	376-3	602-1	149-1	364-1	226-3	361-1	101-1	236-1	153-3	244-1	847-2	190-1	130-3	204-1
2.80	235-1	221-1	495-1	288-3	495-1	178-1	402-1	232-3	395-1	142-1	315-1	186-3	319-1	107-1	226-1	142-3	241-1
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3.20	597-1	315-1	635-1	315-3	620-1	207-1	414-1	207-3	406-1	165-1	316-1	166-3	324-1	124-1	236-1	127-3	244-1
3.40	477-1	258-1	488-1	228-3	477-1	175-1	349-1	155-3	325-1	145-1	273-1	129-3	268-1	115-1	214-1	104-3	213-1
3.60	284-1	171-1	316-1	135-3	299-1	134-1	249-1	106-3	234-1	114-1	218-1	905-4	199-1	101-1	188-1	823-4	177-1
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4.20	165-1	146-1	222-1	848-4	219-1	136-1	203-1	793-4	204-1	122-1	177-1	717-4	183-1	102-1	155-1	616-4	153-1
4.40	101-1	189-1	277-1	979-4	264-1	157-1	227-1	831-4	224-1	132-1	186-1	701-4	188-1	116-1	173-1	628-4	165-1
4.60	341-1	251-1	343-1	121-3	344-1	194-1	278-1	943-4	266-1	162-1	220-1	787-4	221-1	132-1	197-1	653-4	180-1
4.80	357-1	326-1	447-1	145-3	427-1	230-1	311-1	102-3	301-1	189-1	259-1	846-4	248-1	147-1	222-1	666-4	192-1
5.00	519-1	419-1	525-1	171-3	527-1	263-1	345-1	107-3	330-1	212-1	296-1	874-4	267-1	158-1	243-1	664-4	199-1
5.20	449-1	396-1	480-1	134-3	453-1	299-1	386-1	101-3	341-1	248-1	326-1	846-4	283-1	196-1	257-1	683-4	224-1
5.40	330-1	358-1	390-1	101-3	375-1	316-1	344-1	900-4	331-1	266-1	298-1	762-4	279-1	208-1	243-1	612-4	218-1
5.60	279-1	314-1	378-1	760-4	303-1	278-1	344-1	675-4	269-1	237-1	303-1	578-4	229-1	189-1	251-1	473-4	182-1
5.80	245-1	273-1	318-1	570-4	245-1	237-1	297-1	496-4	213-1	206-1	270-1	433-4	185-1	166-1	234-1	359-4	149-1
6.00	610-2	234-1	240-1	425-4	196-1	215-1	234-1	393-4	180-1	192-1	224-1	353-4	161-1	161-1	206-1	306-4	135-1
6.20	136-1	191-1	183-1	306-4	150-1	181-1	180-1	291-4	142-1	168-1	181-1	272-4	132-1	148-1	178-1	249-4	116-1
6.40																	
6.60																	
6.80																	
7.00																	
7.20																	
7.40																	
7.60																	
7.80																	
8.00																	

RELATIVE VELOCITY RESPONSE SPECTRUM
 SAN FERNANDO EARTHQUAKE FEB. 9, 1971 - 0600 PST
 111M177 71.034.0 1150 SOUTH HILL STREET, 5TH FLOOR, LOS ANGELES, CAL. COMP DOWN
 DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

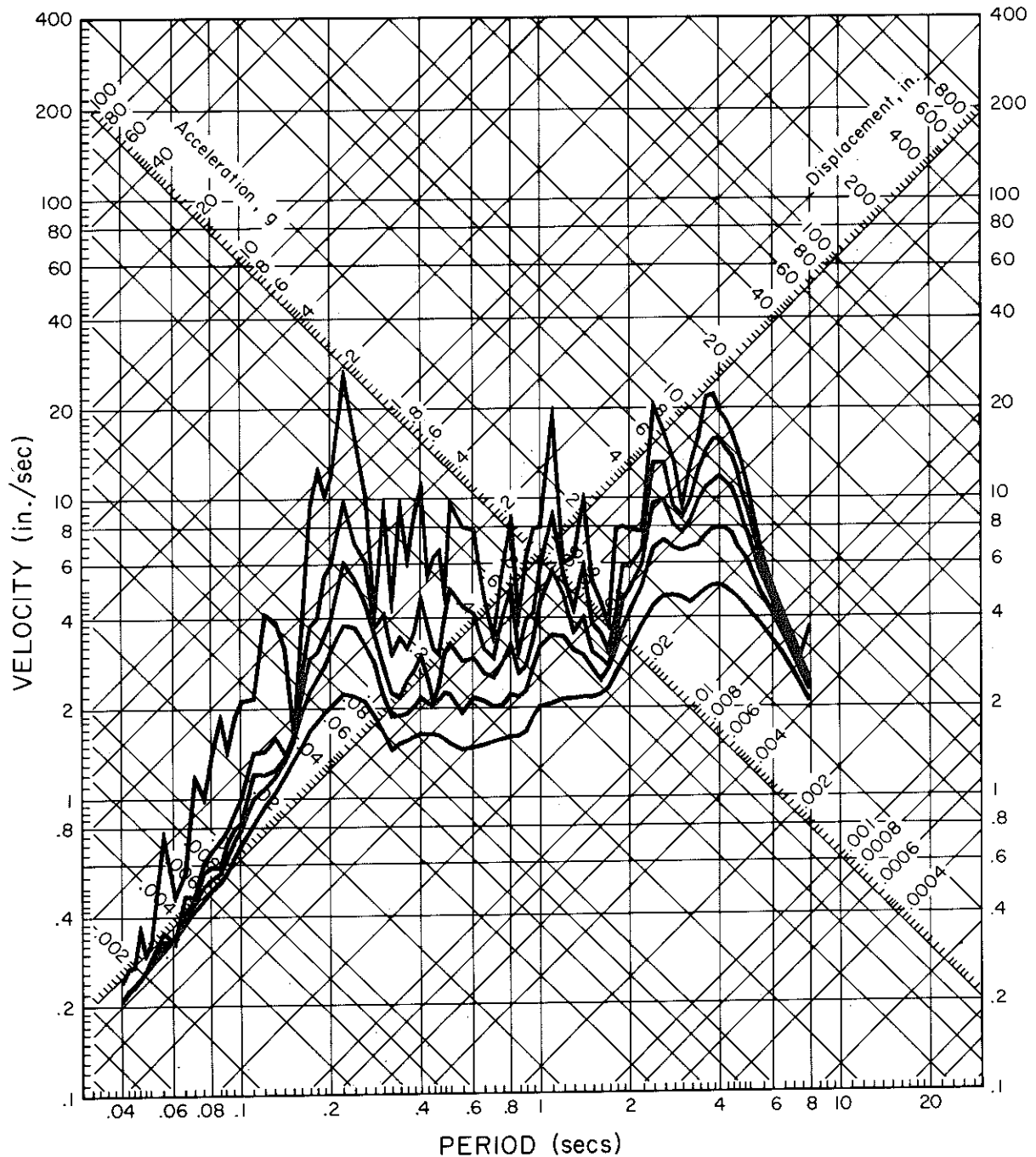


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111M177 71.034.0 1150 SOUTH HILL STREET, 5TH FLOOR, LOS ANGELES, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



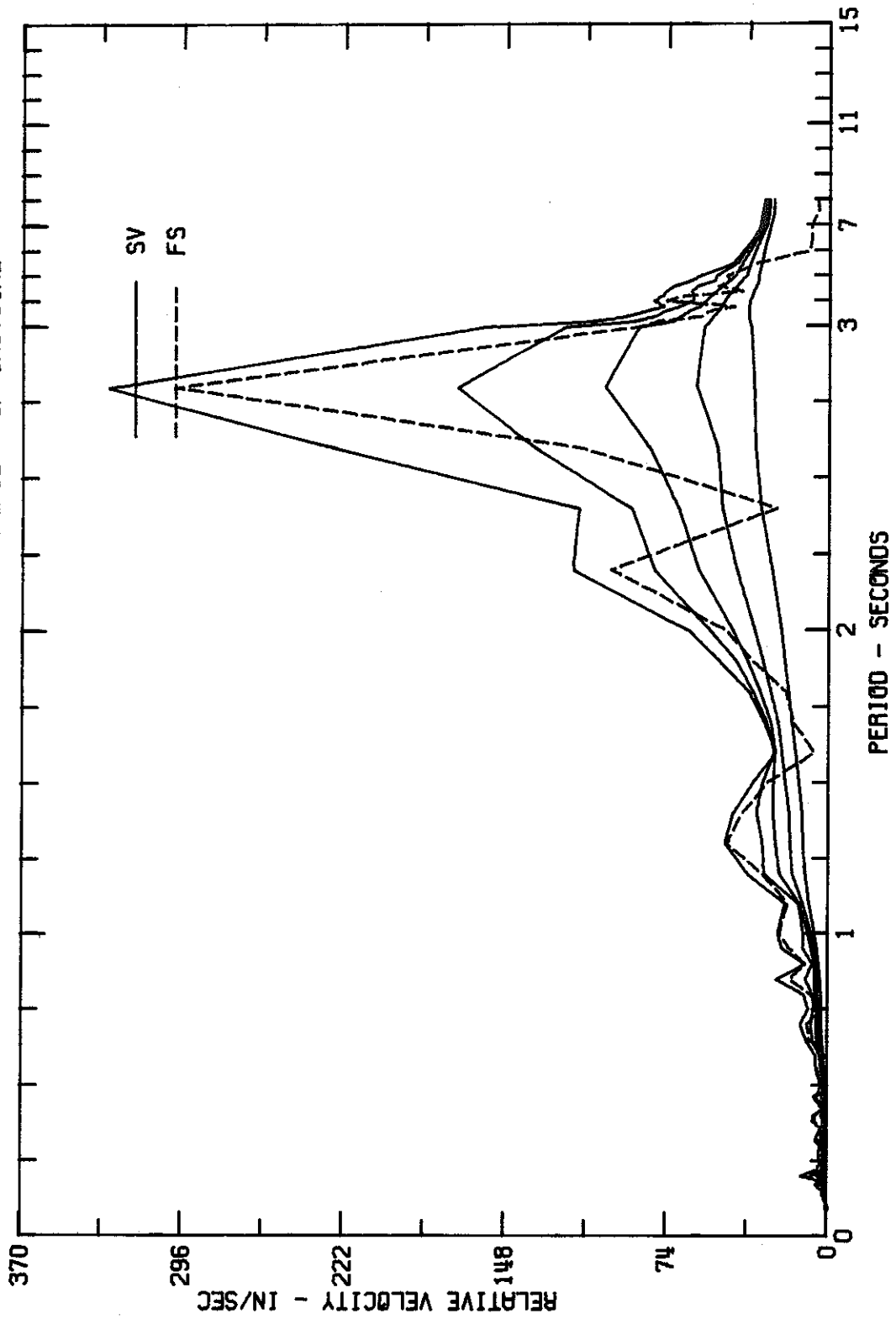
IIIM177 71.034.0 1150 SOUTH HILL STREET, 5TH FLOOR, LOS ANGELES, CAL. COMP DOWN
 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	566-4	152-5	998-4	976-4	239-3	131-5	644-4	840-4	843-4	207-3	133-5	545-4	854-4	209-3	134-5	505-4	862-4
0.042	383-4	178-5	115-3	103-3	266-3	151-5	630-4	876-4	862-4	222-3	148-5	594-4	860-4	222-3	148-5	555-4	866-4
0.044	486-4	189-5	119-3	100-3	270-3	162-5	707-4	856-4	861-4	233-3	164-5	651-4	868-4	234-3	164-5	611-4	873-4
0.046	176-3	265-5	188-3	128-3	362-3	180-5	795-4	873-4	872-4	246-3	181-5	708-4	880-4	248-3	181-5	668-4	885-4
0.048	109-3	226-5	152-3	100-3	296-3	200-5	931-4	891-4	895-4	264-3	201-5	752-4	897-4	263-3	199-5	727-4	889-4
0.050	553-5	259-5	189-3	106-3	328-3	229-5	940-4	940-4	933-4	287-3	223-5	787-4	918-4	280-3	218-5	790-4	900-4
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0.060	312-3	444-5	331-3	126-3	465-3	310-5	166-3	882-4	884-4	329-3	327-5	127-3	929-4	343-3	326-5	119-3	934-4
0.065	206-3	585-5	354-3	141-3	566-3	485-5	228-3	117-3	103-3	413-3	408-5	166-3	989-4	394-3	391-5	145-3	962-4
0.070	460-3	130-4	102-2	272-3	117-2	520-5	304-3	108-3	107-3	458-3	499-5	193-3	104-3	448-3	467-5	178-3	984-4
0.075	690-3	118-4	887-3	216-3	996-3	725-5	314-3	132-3	121-3	561-3	602-5	249-3	110-3	504-3	542-5	216-3	100-3
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0.085	130-2	251-4	171-2	355-3	185-2	972-5	532-3	137-3	111-3	586-3	757-5	369-3	107-3	559-3	706-5	305-3	101-3
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0.095	109-2	284-4	161-2	322-3	186-2	135-4	621-3	152-3	134-3	894-3	119-4	488-3	134-3	822-3	125-4	464-3	123-3
0.100	421-3	337-4	190-2	345-3	211-2	159-4	824-3	162-3	171-3	142-2	210-4	872-3	149-3	994-3	110-4	439-3	111-3
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0.280	137-2	183-3	394-2	239-3	411-2	165-3	369-2	217-3	371-2	155-3	348-2	125-3	301-2	166-3	280-2	837-4	210-2
0.300	429-2	444-3	936-2	505-3	931-2	196-3	460-2	223-3	412-2	130-3	316-2	148-3	273-2	104-3	251-2	120-3	165-2
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0.380	860-2	547-3	896-2	387-3	904-2	217-3	363-2	154-3	360-2	162-3	268-2	122-3	201-2	888-4	202-2	970-4	164-2
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0.480	251-2	368-3	451-2	163-3	482-2	308-3	376-2	136-3	403-2	233-3	377-2	104-3	305-2	172-3	211-2	783-4	225-2
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0.550	776-2	707-3	789-2	239-3	808-2	383-3	422-2	130-3	438-2	250-3	255-2	847-4	286-2	167-3	212-2	579-4	191-2
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0.700	385-3	381-3	350-2	796-4	342-2	325-3	325-3	680-4	291-2	281-3	252-2	823-4	228-2	475-4	201-2	171-3	165-2

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

RELATIVE VELOCITY RESPONSE SPECTRUM
 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
 111M178 71.033.0 1150 SOUTH HILL STREET, 10TH FLOOR, LOS ANGELES, CAL. COMP N37E
 DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

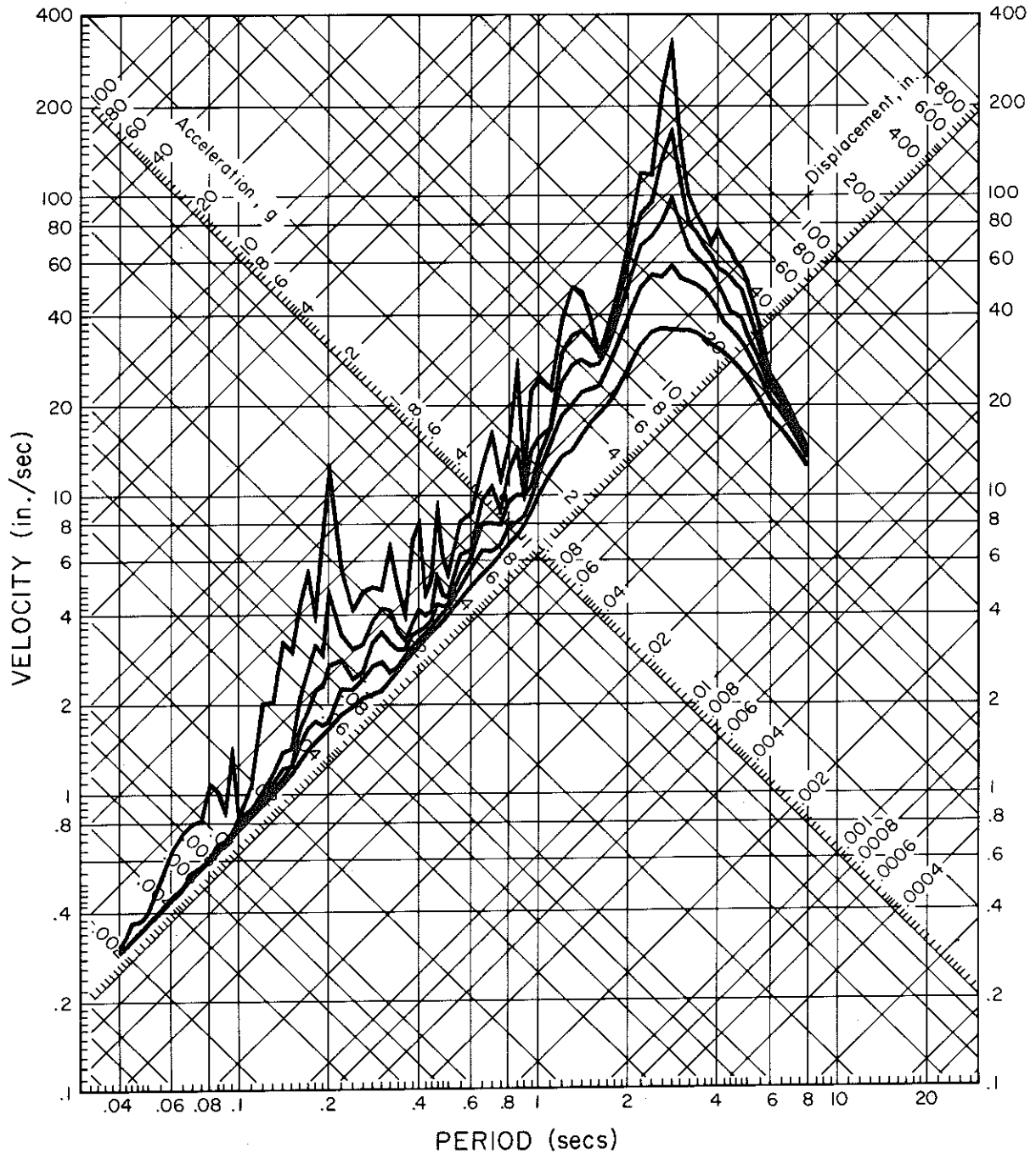


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111M178 71.033.0 1150 SOUTH HILL STREET, 10TH FLOOR, LOS ANGELES, CAL. COMP N37E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
 IIIM178 71.033.0 1150 SOUTH HILL STREET, 10TH FLOOR, LCS ANGELES, CAL. COMP N37E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

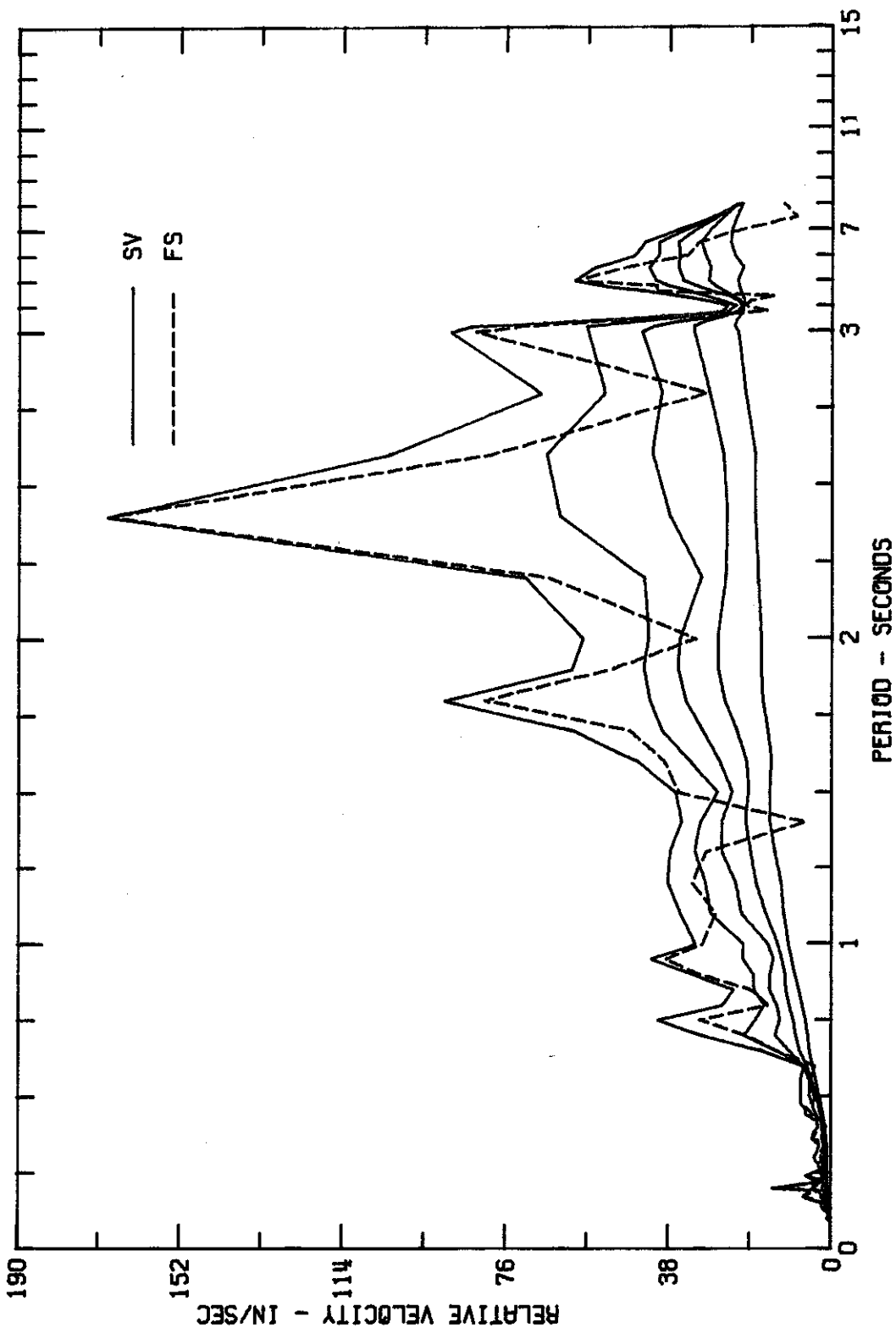
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DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT																	
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0.044	237-4	260-5	655-4	137-3	371-3	227-5	312-4	120-3	325-3	227-5	292-4	120-3	325-3	227-5	277-4	120-3	324-3
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0.048	502-4	293-5	572-4	130-3	383-3	272-5	373-4	120-3	356-3	272-5	334-4	120-3	355-3	271-5	322-4	120-3	355-3
0.050	537-4	324-5	670-4	132-3	407-3	297-5	418-4	121-3	373-3	295-5	383-4	121-3	371-3	294-5	345-4	120-3	370-3
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0.080	603-3	138-4	644-3	222-3	109-2	777-5	165-3	124-3	610-3	777-5	106-3	124-3	611-3	772-5	866-4	123-3	606-3
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0.095	627-3	208-4	744-3	236-3	138-2	114-4	231-3	129-3	757-3	111-4	189-3	126-3	736-3	111-4	164-3	125-3	727-3
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0.110	392-3	189-4	501-3	160-3	108-2	157-4	326-3	133-3	898-3	150-4	276-3	127-3	857-3	150-4	233-3	126-3	856-3
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0.180	180-2	115-3	373-2	365-3	404-2	915-4	240-2	289-3	319-2	648-4	154-2	204-3	226-2	510-4	108-2	162-3	178-2
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0.360	196-2	231-3	307-2	182-3	403-2	189-3	214-2	149-3	330-2	178-3	194-2	141-3	311-2	169-3	162-2	133-3	295-2
0.380	621-2	442-3	685-2	313-3	730-2	230-3	198-2	163-3	380-2	210-3	195-2	149-3	347-2	191-3	161-2	136-3	317-2
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0.650	857-2	131-2	102-1	318-3	127-1	101-2	727-2	246-3	984-2	845-3	552-2	205-3	817-2	689-3	390-2	168-3	666-2
0.700	963-2	183-2	126-1	382-3	164-1	121-2	788-2	254-3	109-1	916-3	533-2	191-3	822-2	735-3	418-2	155-3	660-2

IIIM178 71.033.0 1150 SOUTH HILL STREET, 10TH FLOOR, LOS ANGELES, CAL. COMP N37E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
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DAMPING = 2 PER CENT																	
DAMPING = 5 PER CENT																	
DAMPING = 10 PER CENT																	
DAMPING = 20 PER CENT																	
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0.80	825-2	194-2	111-1	310-3	152-1	157-2	737-2	252-3	124-1	124-2	613-2	199-3	979-2	102-2	487-2	164-3	803-2
0.85	179-1	366-2	237-1	519-3	271-1	197-2	105-1	279-3	145-1	138-2	641-2	196-3	102-1	112-2	517-2	159-3	828-2
0.90	104-1	171-2	103-1	216-3	119-1	145-2	738-2	184-3	101-1	146-2	654-2	185-3	102-1	124-2	526-2	159-3	872-2
0.95	177-1	348-2	212-1	394-3	230-1	217-2	115-1	247-3	144-1	167-2	782-2	190-3	110-1	151-2	642-2	173-3	100-1
1.00	225-1	397-2	229-1	406-3	249-1	252-2	117-1	258-3	158-1	215-2	948-2	220-3	135-1	188-2	790-2	194-3	118-1
1.10	187-1	402-2	199-1	340-3	229-1	300-2	137-1	254-3	171-1	299-2	136-1	253-3	170-1	267-2	119-1	228-3	152-1
1.20	308-1	756-2	376-1	536-3	395-1	590-2	297-1	420-3	309-1	469-2	228-1	334-3	245-1	361-2	167-1	260-3	189-1
1.30	469-1	105-1	476-1	637-3	508-1	729-2	306-1	441-3	352-1	579-2	245-1	351-3	279-1	425-2	181-1	260-3	205-1
1.40	396-1	108-1	439-1	568-3	488-1	809-2	329-1	422-3	363-1	650-2	255-1	340-3	291-1	506-2	182-1	267-3	227-1
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1.60	654-2	770-2	241-1	307-3	302-1	768-2	250-1	307-3	301-1	718-2	244-1	288-3	282-1	608-2	214-1	246-3	238-1
1.70	165-1	975-2	298-1	345-3	360-1	927-2	287-1	328-3	342-1	856-2	269-1	304-3	316-1	732-2	236-1	282-3	270-1
1.80	197-1	127-1	368-1	400-3	443-1	118-1	347-1	375-3	414-1	106-1	316-1	380-3	443-1	892-2	267-1	285-3	311-1
1.90	350-1	167-1	504-1	474-3	554-1	153-1	427-1	434-3	507-1	133-1	376-1	380-3	443-1	107-1	303-1	310-3	356-1
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2.60	114	0	946-1	226	0	143-2	228	0	143-2	228	0	143-2	228	0	143-2	228	0
2.80	299	0	146	0	191-2	328	0	822-3	151	0	547-1	120	0	392-1	871-1	448-3	821-1
3.00	860-1	723-1	157	0	822-3	151	0	547-1	120	0	392-1	871-1	448-3	821-1	260-1	573-1	301-3
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3.40	586-1	478-1	928-1	423-3	883-1	417-1	797-1	369-3	770-1	344-1	680-1	306-3	635-1	280-1	533-1	253-3	517-1
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4.40	398-1	473-1	748-1	249-3	675-1	384-1	634-1	203-3	549-1	294-1	518-1	156-3	420-1	258-1	450-1	141-3	369-1
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4.80	461-1	449-1	635-1	199-3	588-1	381-1	527-1	169-3	499-1	305-1	458-1	136-3	399-1	254-1	404-1	117-3	333-1
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5.40	825-2	237-1	397-1	703-4	259-1	237-1	384-1	676-4	248-1	224-1	367-1	645-4	234-1	205-1	342-1	617-4	215-1
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6.20	825-2	237-1	397-1	703-4	259-1	237-1	384-1	676-4	248-1	224-1	367-1	645-4	234-1	205-1	342-1	617-4	215-1
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6.60	825-2	237-1	397-1	703-4	259-1	237-1	384-1	676-4	248-1	224-1	367-1	645-4	234-1	205-1	342-1	617-4	215-1
6.80	825-2	237-1	397-1	703-4	259-1	237-1	384-1	676-4	248-1	224-1	367-1	645-4	234-1	205-1	342-1	617-4	215-1
7.00	877-2	221-1	348-1	461-4	198-1	214-1	310-1	556-4	192-1	206-1	300-1	439-4	185-1	193-1	289-1	436-4	174-1
7.20	877-2	221-1	348-1	461-4	198-1	214-1	310-1	556-4	192-1	206-1	300-1	439-4	185-1	193-1	289-1	436-4	174-1
7.40	877-2	221-1	348-1	461-4	198-1	214-1	310-1	556-4	192-1	206-1	300-1	439-4	185-1	193-1	289-1	436-4	174-1
7.60	877-2	221-1	348-1	461-4	198-1	214-1	310-1	556-4	192-1	206-1	300-1	439-4	185-1	193-1	289-1	436-4	174-1
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8.00	574-2	184-1	297-1	294-4	144-1	182-1	292-1	292-4	143-1	179-1	286-1	294-4	140-1	174-1	275-1	307-4	136-1
8.20	574-2	184-1	297-1	294-4	144-1	182-1	292-1	292-4	143-1	179-1	286-1	294-4	140-1	174-1	275-1	307-4	136-1
8.40	574-2	184-1	297-1	294-4	144-1	182-1	292-1	292-4	143-1	179-1	286-1	294-4	140-1	174-1	275-1	307-4	136-1
8.60	574-2	184-1	297-1	294-4	144-1	182-1	292-1	292-4	143-1	179-1	286-1	294-4	140-1	174-1	275-1	307-4	136-1
8.80	574-2	184-1	297-1	294-4	144-1	182-1	292-1	292-4	143-1	179-1	286-1	294-4	140-1	174-1	275-1	307-4	136-1
9.00	574-2	184-1	297-1	294-4	144-1	182-1	292-1	292-4	143-1	179-1	286-1	294-4	140-1	174-1	275-1	307-4	136-1
9.20	574-2	184-1	297-1	294-4	144-1	182-1	292-1	292-4	143-1	179-1	286-1	294-4	140-1	174-1	275-1	307-4	136-1
9.40	574-2	184-1	297-1	294-4	144-1	182-1	292-1	292-4	143-1	179-1	286-1	294-4	140-1	174-1	275-1	307-4	136-1
9.60	574-2	184-1	297-1	294-4	144-1	182-1	292-1	292-4	143-1	179-1	286-1	294-4	140-1	174-1	275-1	307-4	136-1
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RELATIVE VELOCITY RESPONSE SPECTRUM
 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
 111M178 71.033.0 1150 SOUTH HILL STREET, 10TH FLOOR, LOS ANGELES, CAL. COMP S53E
 DAMPING VALUES ARE 0. 2. 5. 10 AND 20 PERCENT OF CRITICAL

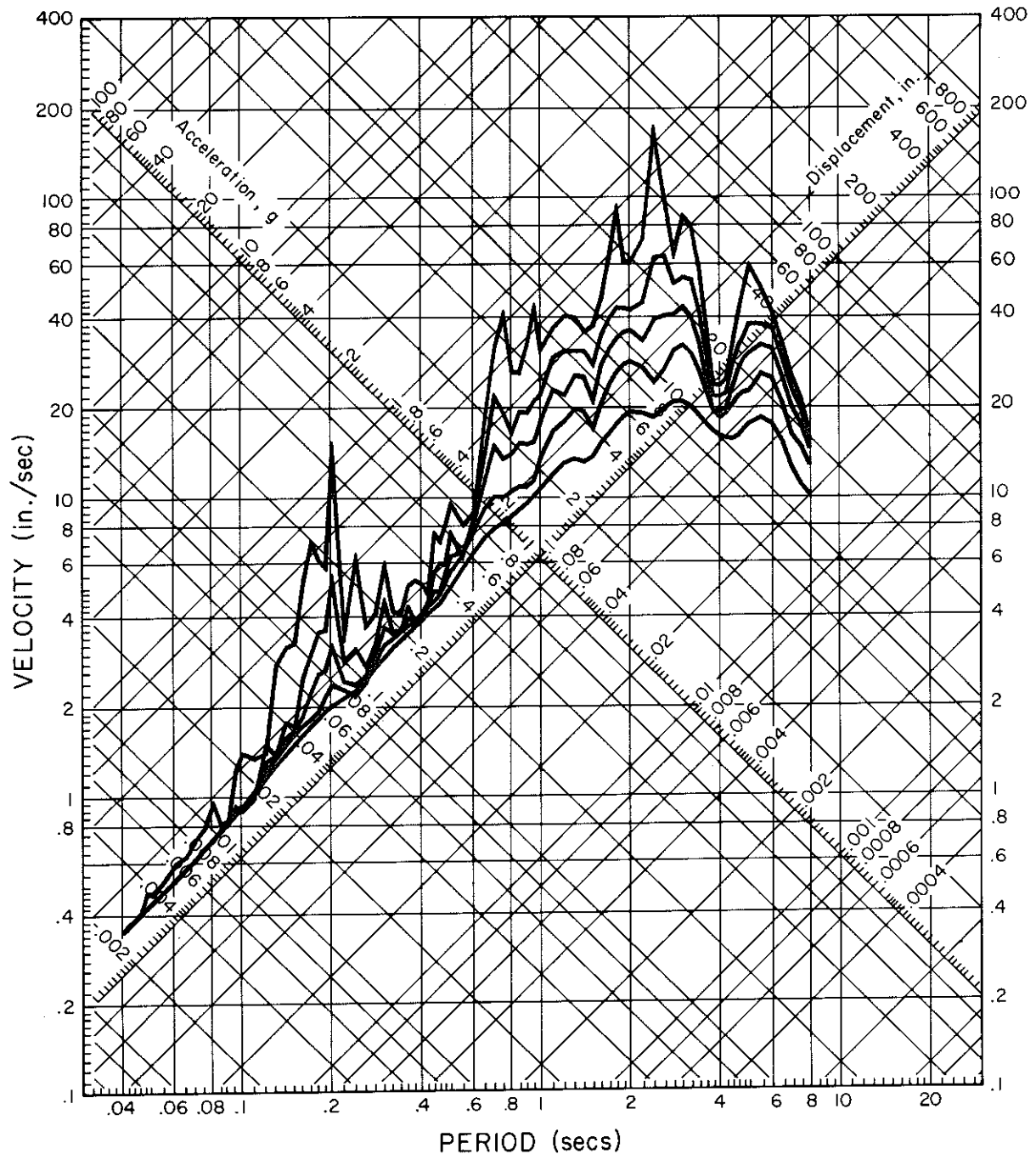


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111M178 71.033.0 1150 SOUTH HILL STREET, 10TH FLOOR, LOS ANGELES, CAL. COMP S53E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

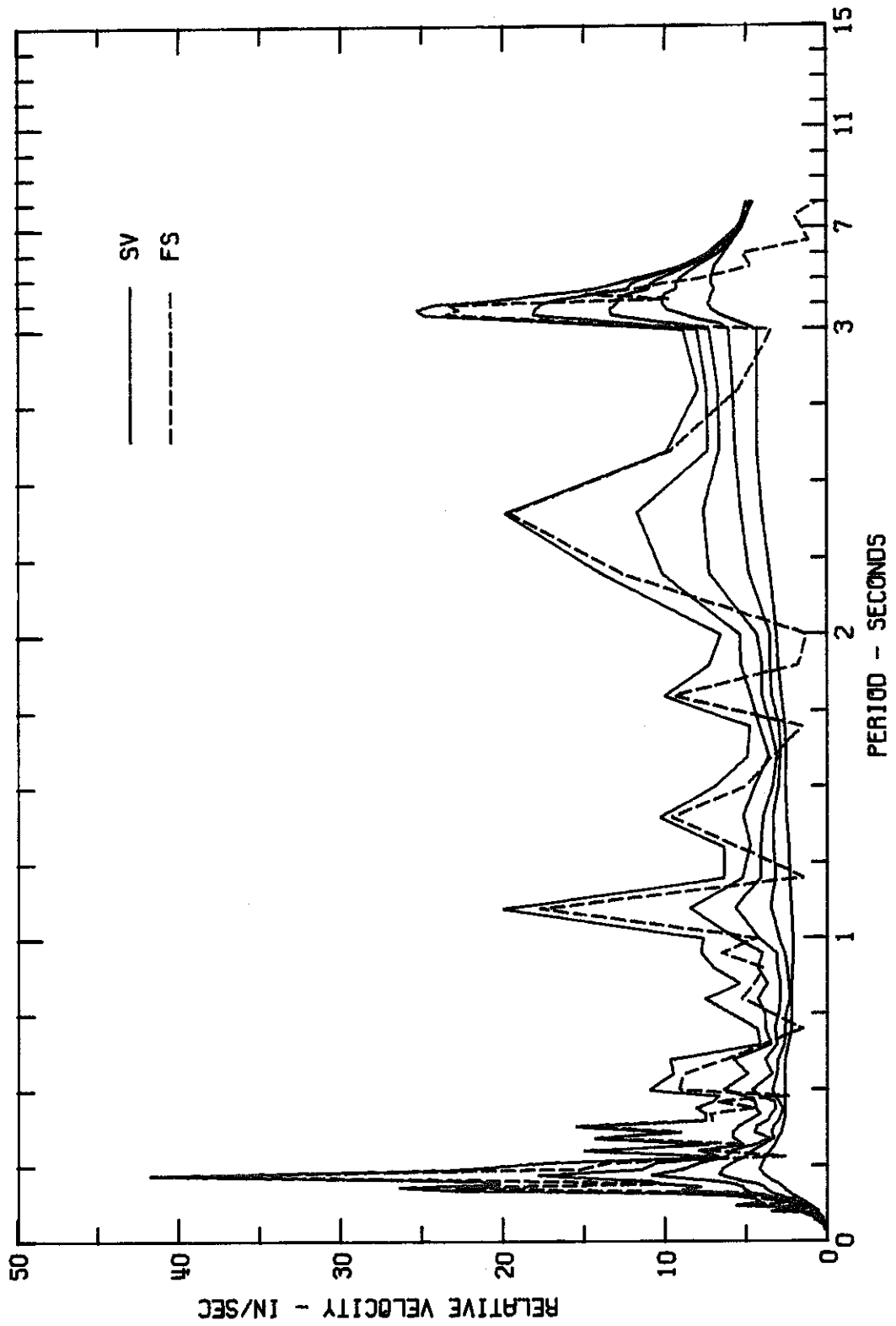


111M178 71.033.0 1150 SOUTH HILL STREET, 10TH FLOOR, LOS ANGELES, CAL. COMP S53E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SC AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT																	
0.75	307-1	493-2	407-1	896-3	413-1	229-2	178-1	417-3	192-1	162-2	120-2	902-2	223-3	101-1	992-3	608-2	831-2
0.80	146-1	338-2	253-1	540-3	265-1	210-2	156-1	336-3	165-1	179-2	128-1	992-2	219-3	106-1	111-2	690-2	872-2
0.85	189-1	357-2	229-1	506-3	264-1	264-2	181-1	375-3	195-1	208-2	144-1	106-1	215-3	110-1	124-2	774-2	863-3
0.90	305-1	473-2	323-1	597-3	330-1	277-2	184-1	350-3	193-1	218-2	143-1	108-1	202-3	110-1	138-2	859-2	920-2
0.95	389-1	654-2	423-1	741-3	432-1	323-2	208-1	366-3	213-1	234-2	135-1	174-2	201-3	115-1	155-2	936-2	102-1
1.00	301-1	499-2	317-1	511-3	314-1	354-2	206-1	363-3	222-1	290-2	149-1	127-1	227-3	138-1	173-2	101-1	189-3
1.10	270-1	652-2	354-1	551-3	372-1	518-2	284-1	438-3	295-1	405-2	212-1	295-2	253-3	168-1	213-2	113-1	194-3
1.20	326-1	782-2	383-1	556-3	409-1	596-2	294-1	423-3	312-1	424-2	226-1	177-1	252-3	182-1	252-2	118-1	193-3
1.30	294-1	836-2	377-1	505-3	404-1	644-2	320-1	390-3	311-1	535-2	257-1	190-1	255-3	200-1	282-2	134-1	184-3
1.40	593-2	804-2	350-1	419-3	361-1	691-2	305-1	361-3	310-1	568-2	257-1	202-1	233-3	195-1	296-2	145-1	168-3
1.50	357-1	905-2	365-1	411-3	379-1	668-2	266-1	304-3	279-1	507-2	233-1	231-3	233-3	171-1	331-2	146-1	161-3
1.60	391-1	121-1	452-1	483-3	475-1	905-2	331-1	362-3	355-1	718-2	264-1	288-3	282-1	215-3	395-2	141-1	169-3
1.70	472-1	175-1	602-1	619-3	646-1	109-1	398-1	386-3	403-1	860-2	302-1	655-2	223-1	235-3	242-1	450-2	150-1
1.80	811-1	263-1	905-1	831-3	919-1	125-1	427-1	395-3	437-1	985-2	342-1	312-3	344-1	244-3	266-1	511-2	161-1
1.90	516-1	187-1	606-1	530-3	619-1	131-1	440-1	372-3	434-1	109-1	360-1	853-2	267-1	245-3	282-1	573-2	165-1
2.00	317-1	195-1	580-1	500-3	615-1	136-1	428-1	349-3	428-1	116-1	354-1	915-2	266-1	238-3	287-1	621-2	167-1
2.20	665-1	258-1	717-1	546-3	738-1	159-1	440-1	337-3	456-1	118-1	304-1	961-2	248-1	208-3	274-1	677-2	173-1
2.40	169 0	645-1	169 0	114-2	169 0	245-1	637-1	436-3	643-1	152-1	381-1	936-2	245-1	170-3	245-1	716-2	181-1
2.60	793-1	425-1	103 0	643-3	102 0	268-1	667-1	406-3	648-1	169-1	419-1	112-1	256-1	173-3	271-1	836-2	182-1
2.80	293-1	292-1	678-1	381-3	655-1	234-1	531-1	305-3	525-1	184-1	398-1	140-1	288-1	186-3	314-1	943-2	204-1
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3.20	733-1	413-1	840-1	412-3	811-1	274-1	572-1	274-3	538-1	205-1	415-1	155-1	324-1	158-3	304-1	103-1	228-1
3.40	551-1	318-1	621-1	281-3	588-1	228-1	461-1	202-3	422-1	180-1	353-1	144-1	294-1	130-3	266-1	103-1	225-1
3.60	295-1	217-1	411-1	171-3	379-1	174-1	340-1	138-3	305-1	144-1	273-1	128-1	254-1	104-3	225-1	101-1	217-1
3.80	151-1	144-1	258-1	102-3	239-1	132-1	243-1	941-4	219-1	117-1	213-1	118-1	222-1	860-4	196-1	101-1	209-1
4.00	201-1	151-1	244-1	967-4	237-1	139-1	226-1	894-4	219-1	124-1	208-1	118-1	209-1	778-4	186-1	103-1	205-1
4.20	193-1	168-1	293-1	975-4	251-1	150-1	262-1	873-4	225-1	134-1	221-1	129-1	215-1	767-4	193-1	106-1	206-1
4.40	136-1	229-1	357-1	121-3	327-1	195-1	257-1	103-3	279-1	165-1	241-1	144-1	234-1	785-4	206-1	110-1	210-1
4.60	415-1	304-1	430-1	146-3	415-1	235-1	335-1	113-3	321-1	196-1	283-1	161-1	256-1	800-4	220-1	118-1	215-1
4.80	408-1	367-1	539-1	171-3	507-1	266-1	386-1	118-3	348-1	223-1	321-1	174-1	275-1	796-4	228-1	130-1	219-1
5.00	601-1	479-1	601-1	196-3	602-1	305-1	412-1	125-3	384-1	242-1	348-1	182-1	289-1	765-4	228-1	142-1	220-1
5.50	490-1	442-1	554-1	149-3	505-1	334-1	429-1	113-3	381-1	286-1	359-1	229-1	283-1	799-4	262-1	164-1	207-1
6.00	337-1	398-1	460-1	113-3	417-1	354-1	406-1	100-3	370-1	301-1	357-1	240-1	297-1	707-4	251-1	169-1	229-1
6.50	310-1	335-1	437-1	813-4	324-1	301-1	402-1	730-4	251-1	261-1	360-1	214-1	305-1	543-4	207-1	159-1	238-1
7.00	215-1	283-1	364-1	591-4	254-1	256-1	344-1	536-4	230-1	223-1	320-1	181-1	285-1	389-4	162-1	140-1	234-1
7.50	821-2	255-1	280-1	463-4	213-1	235-1	275-1	429-4	197-1	210-1	266-1	177-1	252-1	335-4	148-1	132-1	223-1
8.00	113-1	211-1	214-1	338-4	160-1	201-1	218-1	322-4	158-1	186-1	221-1	164-1	221-1	276-4	129-1	131-1	209-1

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111M178 71.033.0 1150 SOUTH HILL STREET, 10TH FLOOR, LOS ANGELES, CAL. COMP DOWN
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

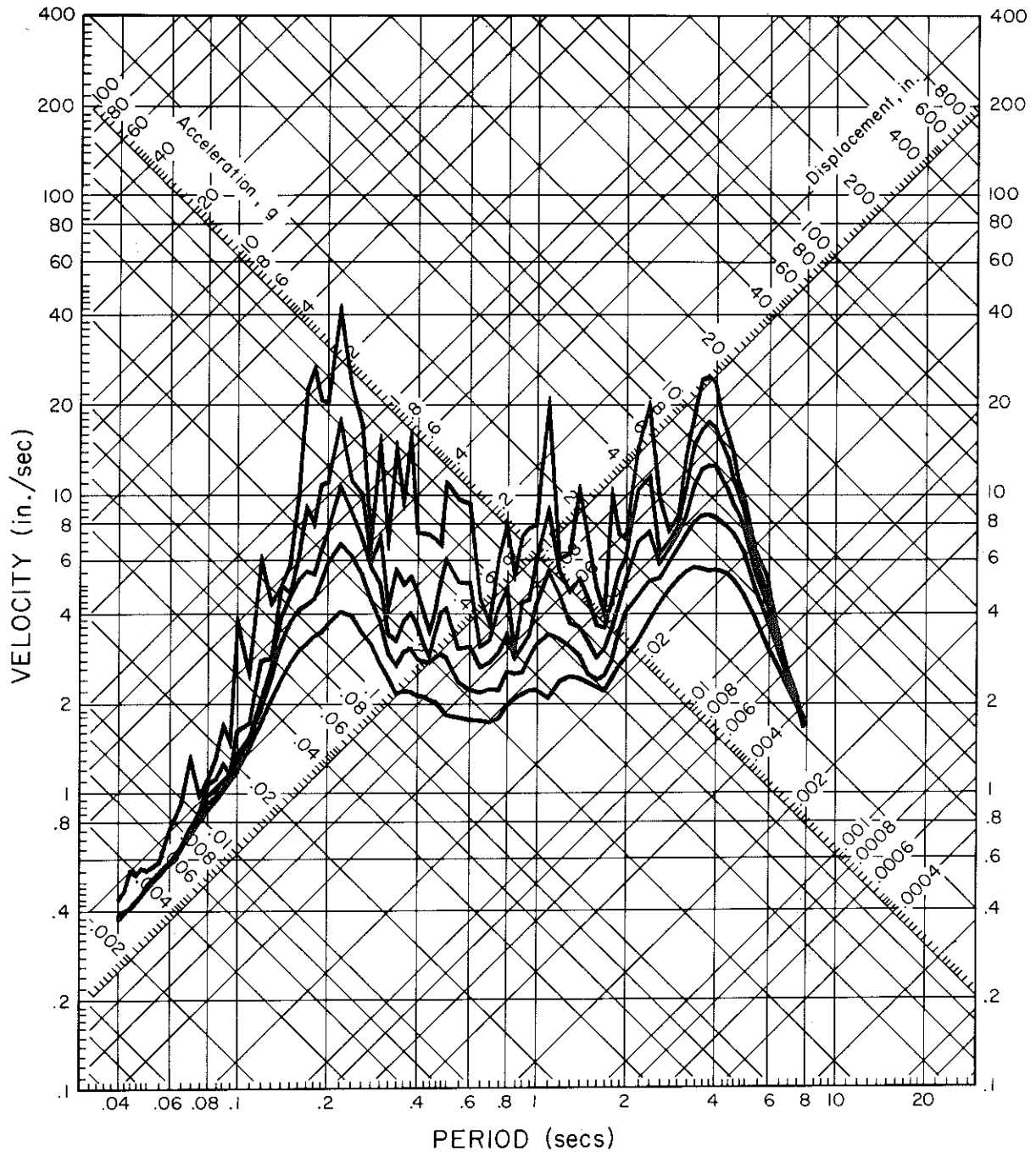


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

11IM178 71.033.0 1150 SOUTH HILL STREET, 10TH FLOOR, LOS ANGELES, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

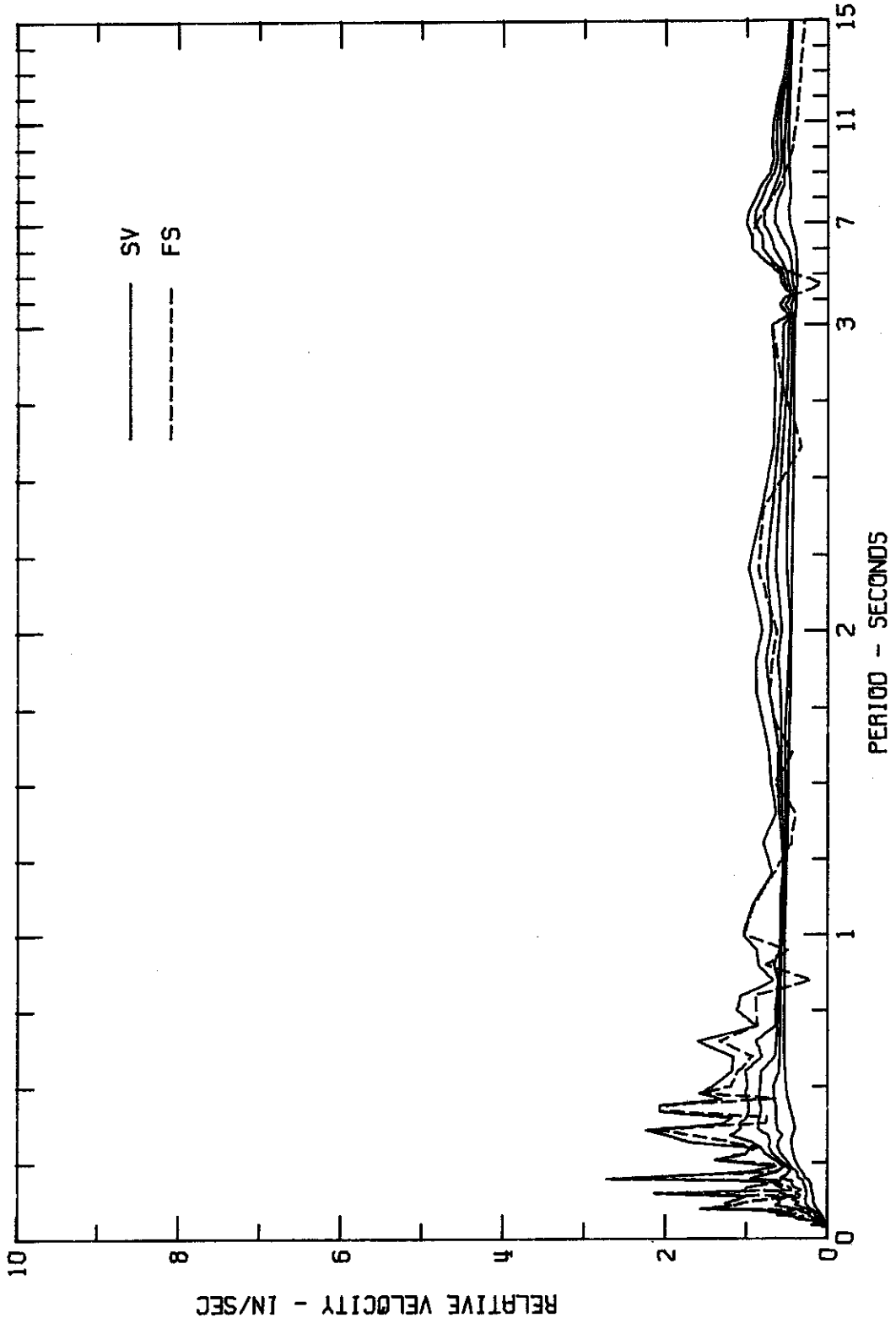


RELATIVE VELOCITY RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111M179 71.061.0 TEHACHAPI PUMPING PLANT, C.W.R. SITE, GRAPEVINE, CAL. COMP SDOOW

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

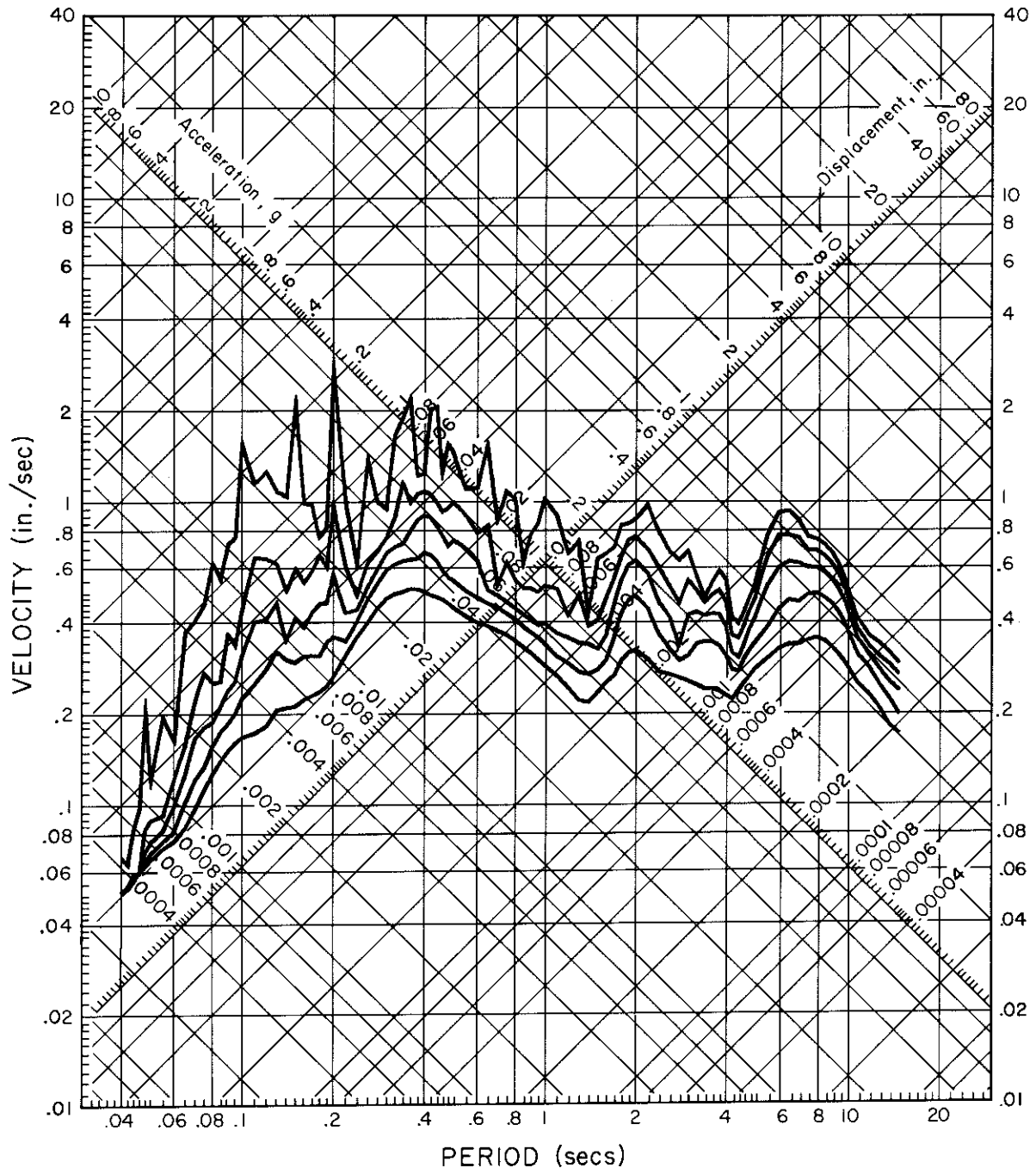


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIM179 71.061.0 TEHACHAPI PUMPING PLANT, C.W.R. SITE, GRAPEVINE, CAL. COMP SDOH

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

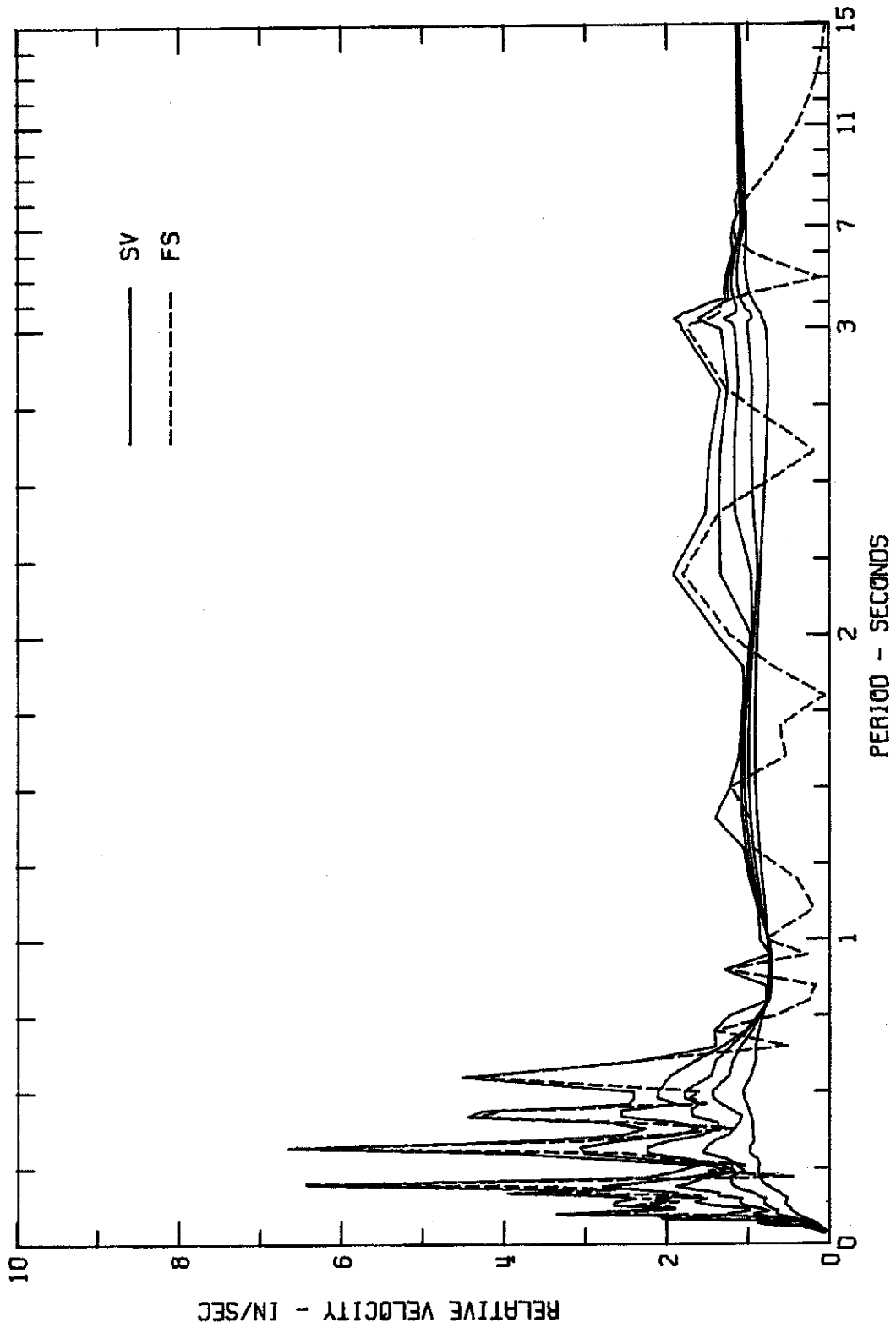


IIIMI179 71.061.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
TEHACHAPI PUMPING PLANT, C.W.R. SITE, GRAPEVINE, CAL. COMP SOOM

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT			
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0.040	149-4	432-6	545-4	276-4	679-4	335-6	248-4	214-4	526-4	337-6	241-4	216-4	530-4	333-6	224-4	213-4	524-4	332-6	193-4	212-4	522-4
0.042	456-4	432-6	454-4	250-4	647-4	366-6	297-4	212-4	548-4	358-6	278-4	208-4	536-4	365-6	246-4	211-4	546-4	368-6	213-4	213-4	550-4
0.044	335-4	600-6	633-4	317-4	857-4	421-6	331-4	222-4	601-4	399-6	297-4	211-4	570-4	401-6	262-4	212-4	573-4	406-6	235-4	214-4	579-4
0.046	823-4	736-6	847-4	355-4	100-3	442-6	398-4	214-4	604-4	452-6	332-4	218-4	618-4	449-6	289-4	217-4	613-4	446-6	259-4	216-4	610-4
0.048	181-3	159-5	200-3	709-4	209-3	645-6	495-4	286-4	845-4	544-6	380-4	241-4	712-4	505-6	335-4	224-4	661-4	489-6	294-4	218-4	641-4
0.050	285-4	973-6	822-4	398-4	122-3	725-6	442-4	296-4	911-4	612-6	401-4	251-4	770-4	561-6	388-4	229-4	705-4	534-6	329-4	218-4	671-4
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0.060	118-3	159-5	162-3	452-4	166-3	119-5	999-4	338-4	125-3	974-6	833-4	275-4	102-3	798-6	620-4	231-4	836-4	744-6	496-4	213-4	779-4
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0.070	367-3	464-5	410-3	970-4	417-3	251-5	191-3	522-4	225-3	190-5	138-3	396-4	170-3	138-5	929-4	293-4	124-3	111-5	672-4	234-4	997-4
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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111M179 71.061.0 TEHACHAPI PUMPING PLANT, C.W.R. SITE, GRAPEVINE, CAL. COMP N90E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

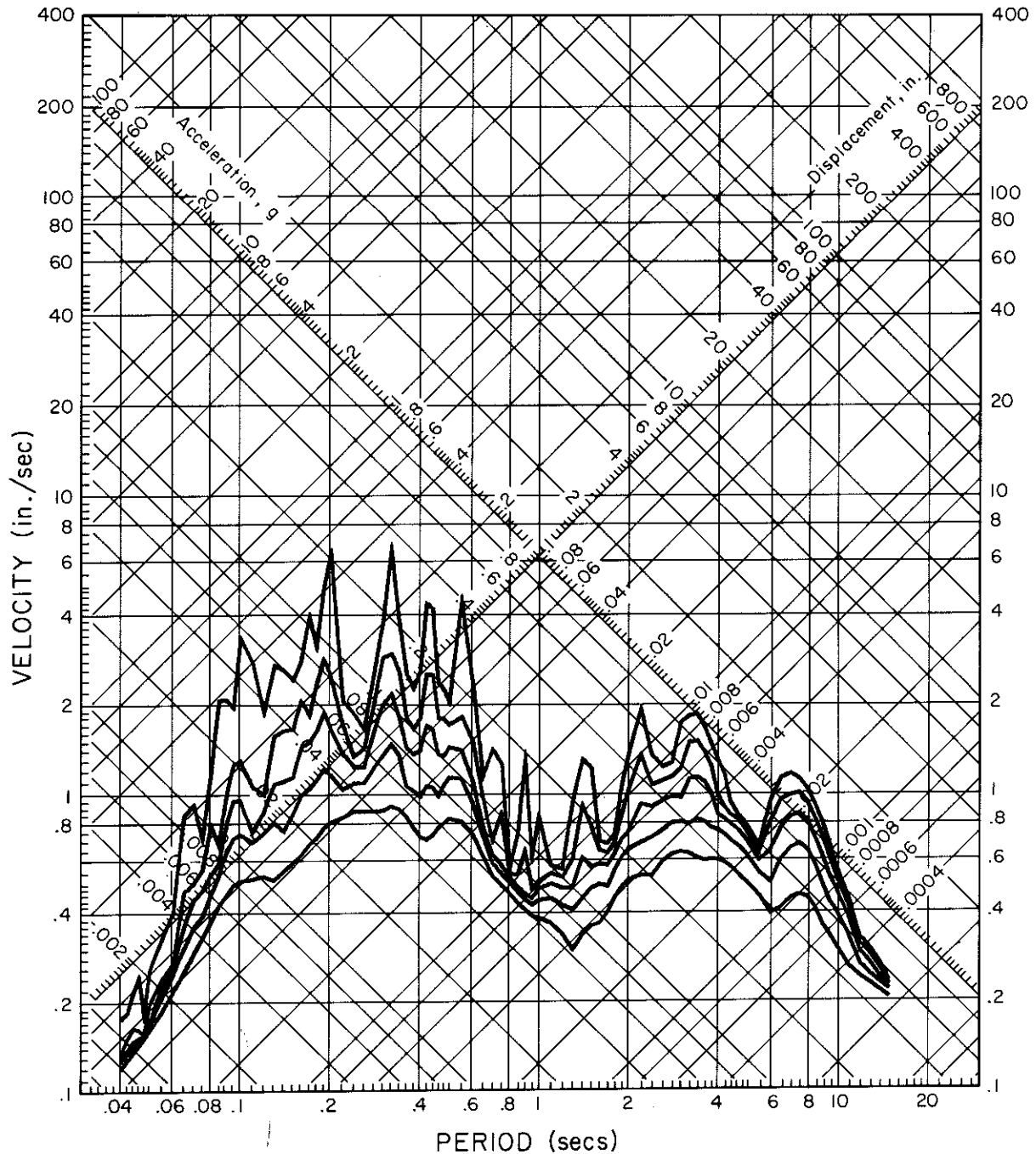


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIM179 71.061.0 TEHACHAPI PUMPING PLANT, C.W.R. SITE, GRAPEVINE, CAL. COMP N90E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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0.80	259-3	720-4	761-3	115-4	565-3	694-4	743-3	110-4	545-3	676-4	747-3	110-4	531-3	646-4	776-3	112-4	507-3
0.85	174-3	100-3	800-3	142-4	742-3	732-4	738-3	103-4	541-3	668-4	716-3	969-5	494-3	643-4	739-3	994-5	475-3
0.90	130-2	187-3	130-2	236-4	130-2	932-4	733-3	117-4	651-3	668-4	713-3	857-5	466-3	640-4	731-3	889-5	446-3
0.95	279-3	941-4	740-3	106-4	622-3	734-4	723-3	831-5	485-3	685-4	728-3	795-5	453-3	650-4	745-3	803-5	430-3
1.00	798-3	135-3	864-3	138-4	848-3	821-4	766-3	841-5	515-3	772-4	769-3	807-5	485-3	710-4	772-3	788-5	446-3
1.10	194-3	101-3	895-3	860-5	581-3	961-4	881-3	820-5	549-3	889-4	864-3	768-5	508-3	792-4	841-3	738-5	452-3
1.20	419-3	108-3	100-2	767-5	566-3	101-3	978-3	724-5	533-3	935-4	948-3	680-5	489-3	820-4	907-3	651-5	429-3
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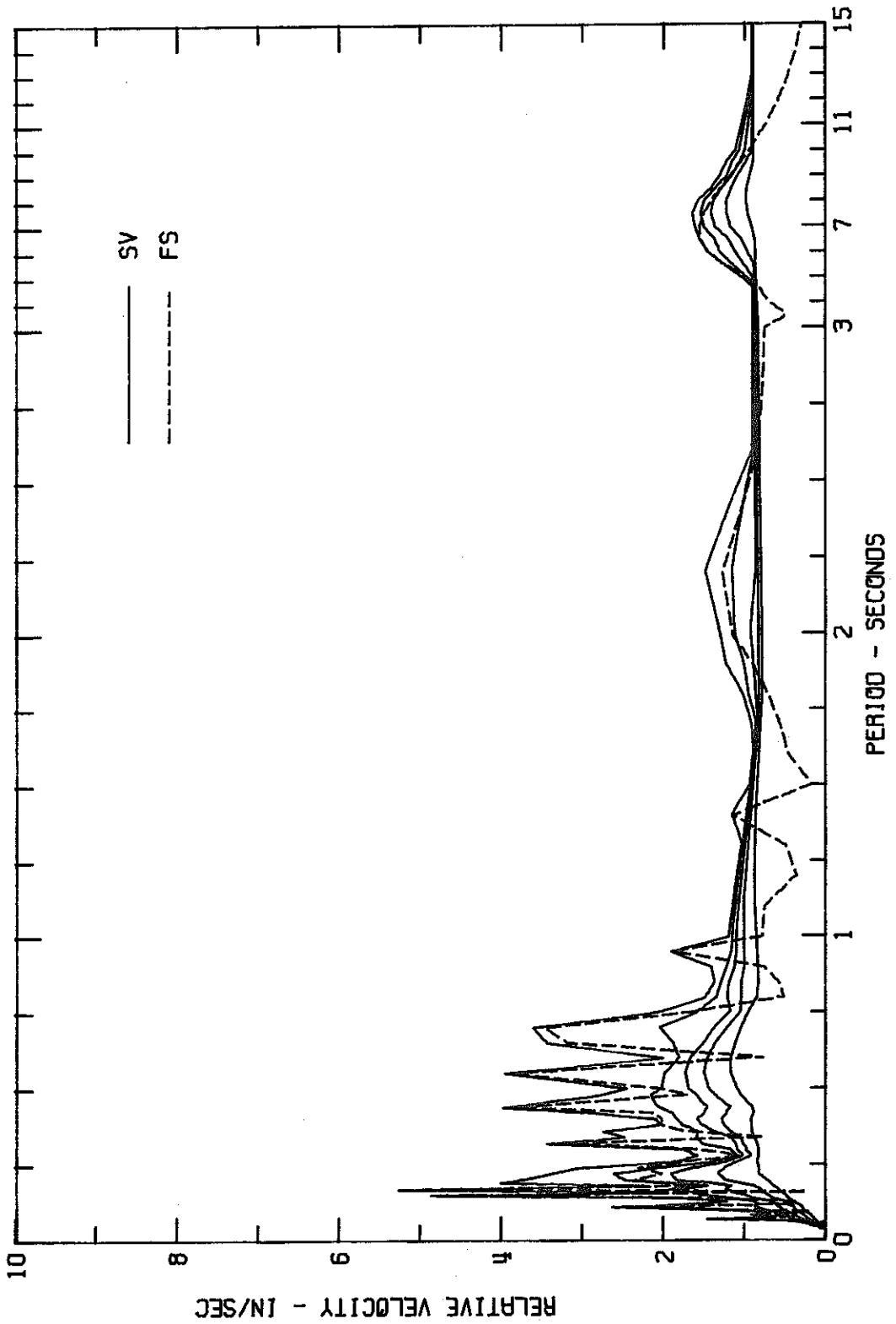
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RELATIVE VELOCITY RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111M179 71.061.0 TEHACHAPI PUMPING PLANT, C.W.R. SITE, GRAPEVINE, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

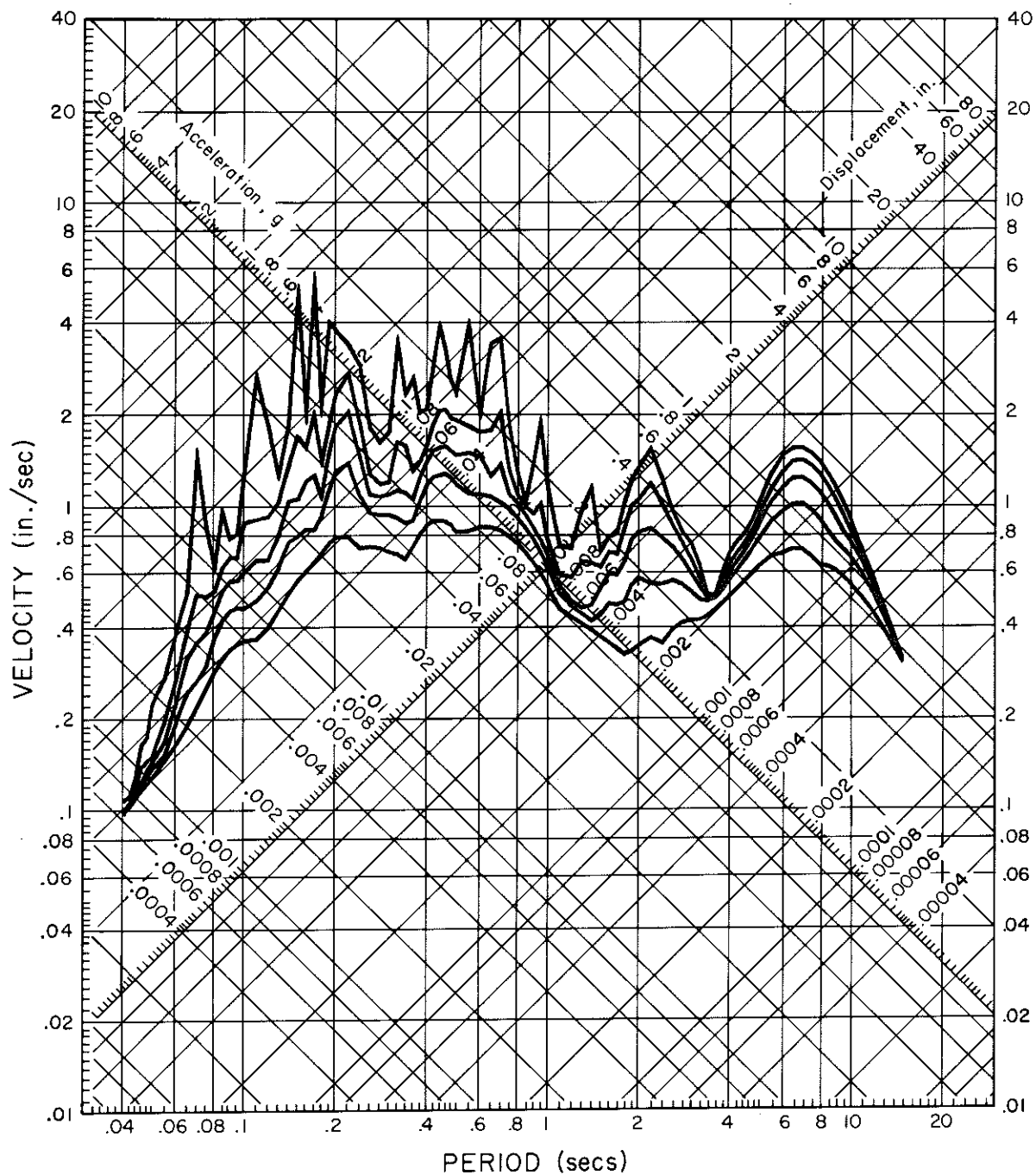


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIM179 71.061.0 TEHACHAPI PUMPING PLANT, C.W.R. SITE, GRAPEVINE, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIMI79 71.061.0 TEHACHAPI PUMPING PLANT, C.W.R. SITE, GRAPEVINE, CAL. COMP DOWN

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

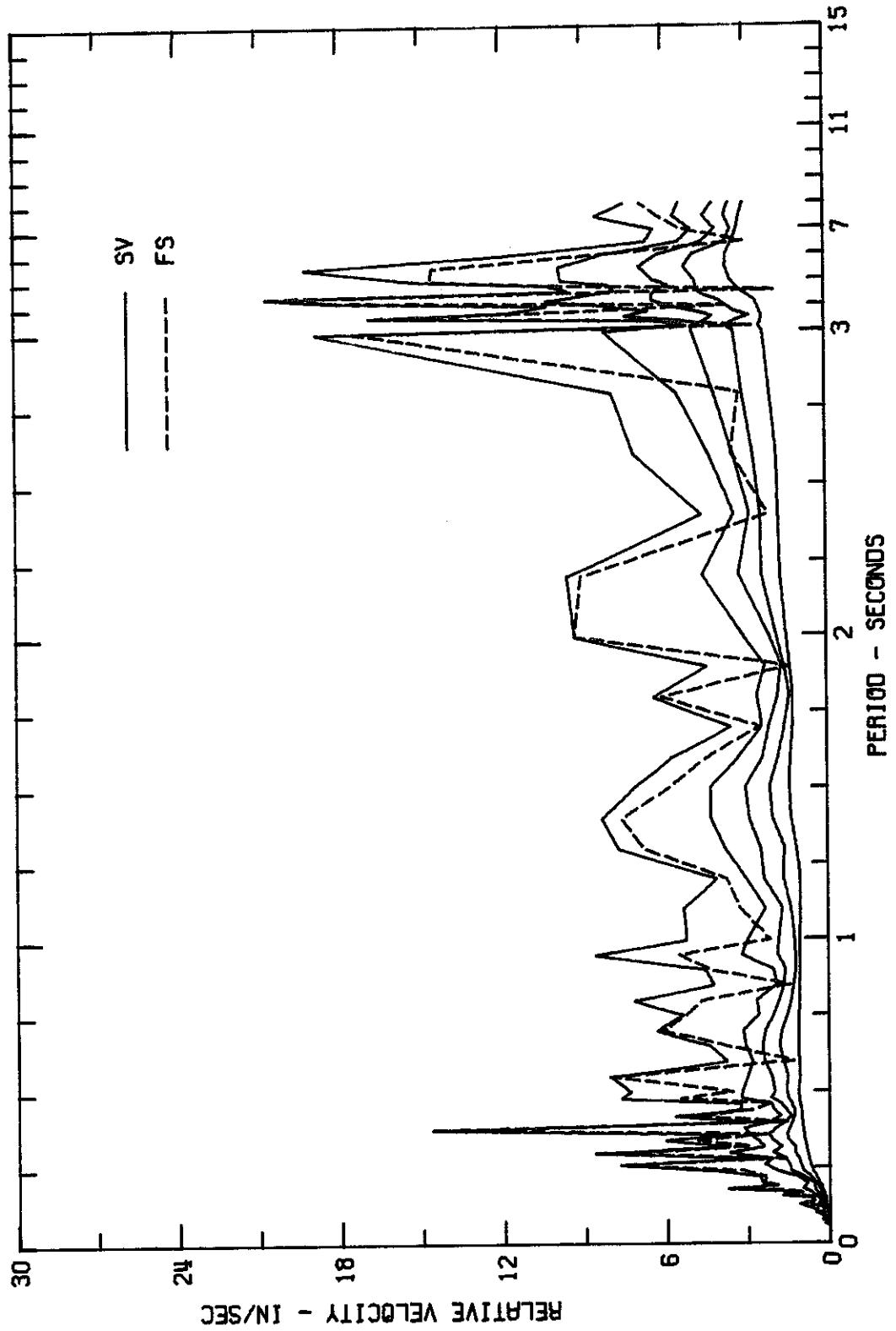
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0.046	108-4	120-5	128-3	583-4	164-3	101-5	706-4	492-4	138-3	907-6	871-6	508-4	423-4	119-3	851-6	474-4	415-4
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0.050	991-4	178-5	194-3	731-4	224-3	120-5	754-4	490-4	150-3	115-5	109-5	657-4	446-4	137-3	102-5	587-4	425-4
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0.060	358-4	371-5	333-3	105-3	388-3	260-5	191-3	741-4	272-3	218-5	186-5	124-3	541-4	195-3	159-5	100-3	460-4
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0.070	143-2	163-4	148-2	340-3	146-2	575-5	431-3	119-3	516-3	399-5	297-5	230-3	614-4	267-3	245-5	149-3	522-4
0.075	532-3	104-4	856-3	189-3	872-3	604-5	479-3	109-3	506-3	460-5	357-5	250-3	663-4	299-3	301-5	165-3	562-4
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0.480	170-2	199-3	276-2	884-4	260-2	149-3	216-2	661-4	195-2	116-3	153-2	956-4	137-2	434-4	125-2	667-4	105-2
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0.550	394-2	345-3	391-2	116-3	394-2	161-3	198-2	546-4	184-2	131-3	174-2	967-4	151-2	334-4	110-2	729-4	118-2
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IIIMI79 71.061.0 TEHACHAPI PUMPING PLANT, C.W.R. SITE, GRAPEVINE, CAL. COMP DOWN

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT					DAMPING = 2 PER CENT					DAMPING = 5 PER CENT					DAMPING = 10 PERCENT					DAMPING = 20 PER CENT					
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0.80	524-3	164-3	148-2	262-4	129-2	139-3	135-2	222-4	109-2	130-3	122-2	210-4	102-2	116-3	104-2	195-4	913-3	961-4	857-3	181-4	754-3				
0.85	582-3	140-3	137-2	199-4	104-2	135-3	129-2	192-4	998-3	127-3	119-2	180-4	939-3	114-3	104-2	169-4	849-3	951-4	832-3	162-4	703-3				
0.90	782-3	199-3	142-2	251-4	139-2	136-3	122-2	172-4	949-3	121-3	112-2	156-4	851-3	111-3	100-2	148-4	778-3	932-4	841-3	145-4	651-3				
0.95	189-2	285-3	192-2	323-4	188-2	155-3	116-2	175-4	102-2	116-3	110-2	134-4	773-3	106-3	101-2	128-4	705-3	911-4	857-3	129-4	602-3				
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3.40	512-3	278-3	899-3	246-5	514-3	270-3	894-3	239-5	500-3	270-3	886-3	243-5	500-3	265-3	873-3	242-5	490-3	237-3	848-3	225-5	438-3				
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3.80	603-3	366-3	902-3	259-5	606-3	344-3	897-3	244-5	569-3	331-3	890-3	237-5	547-3	322-3	878-3	237-5	532-3	292-3	856-3	229-5	484-3				
4.00	694-3	444-3	902-3	284-5	698-3	407-3	898-3	260-5	640-3	383-3	891-3	248-5	602-3	363-3	880-3	242-5	571-3	323-3	859-3	231-5	508-3				
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8.00	140-2	178-2	157-2	285-5	140-2	162-2	149-2	259-5	127-2	141-2	138-2	227-5	111-2	115-2	122-2	188-5	904-3	816-3	990-3	153-5	641-3				
8.50	129-2	174-2	141-2	246-5	128-2	158-2	136-2	224-5	117-2	138-2	128-2	196-5	102-2	112-2	116-2	162-5	830-3	861-3	974-3	138-5	636-3				
9.00	117-2	166-2	130-2	210-5	116-2	151-2	121-2	191-5	106-2	132-2	115-2	168-5	927-3	110-2	108-2	147-5	769-3	884-3	938-3	130-5	617-3				
9.50	105-2	158-2	122-2	179-5	104-2	144-2	115-2	163-5	952-3	126-2	105-2	143-5	835-3	110-2	984-3	133-5	728-3	893-3	891-3	120-5	591-3				
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12.00	580-3	113-2	968-3	803-6	592-3	109-2	948-3	788-6	575-3	105-2	918-3	776-6	552-3	986-3	902-3	753-6	516-3	856-3	894-3	778-6	448-3				
13.00	456-3	987-3	909-3	597-6	477-3	967-3	908-3	588-6	467-3	943-3	906-3	597-6	455-3	903-3	902-3	600-6	436-3	818-3	895-3	654-6	395-3				
14.00	363-3	861-3	909-3	449-6	386-3	852-3	908-3	446-6	382-3	840-3	906-3	464-6	377-3	823-3	903-3	480-6	369-3	774-3	896-3	554-6	347-3				

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

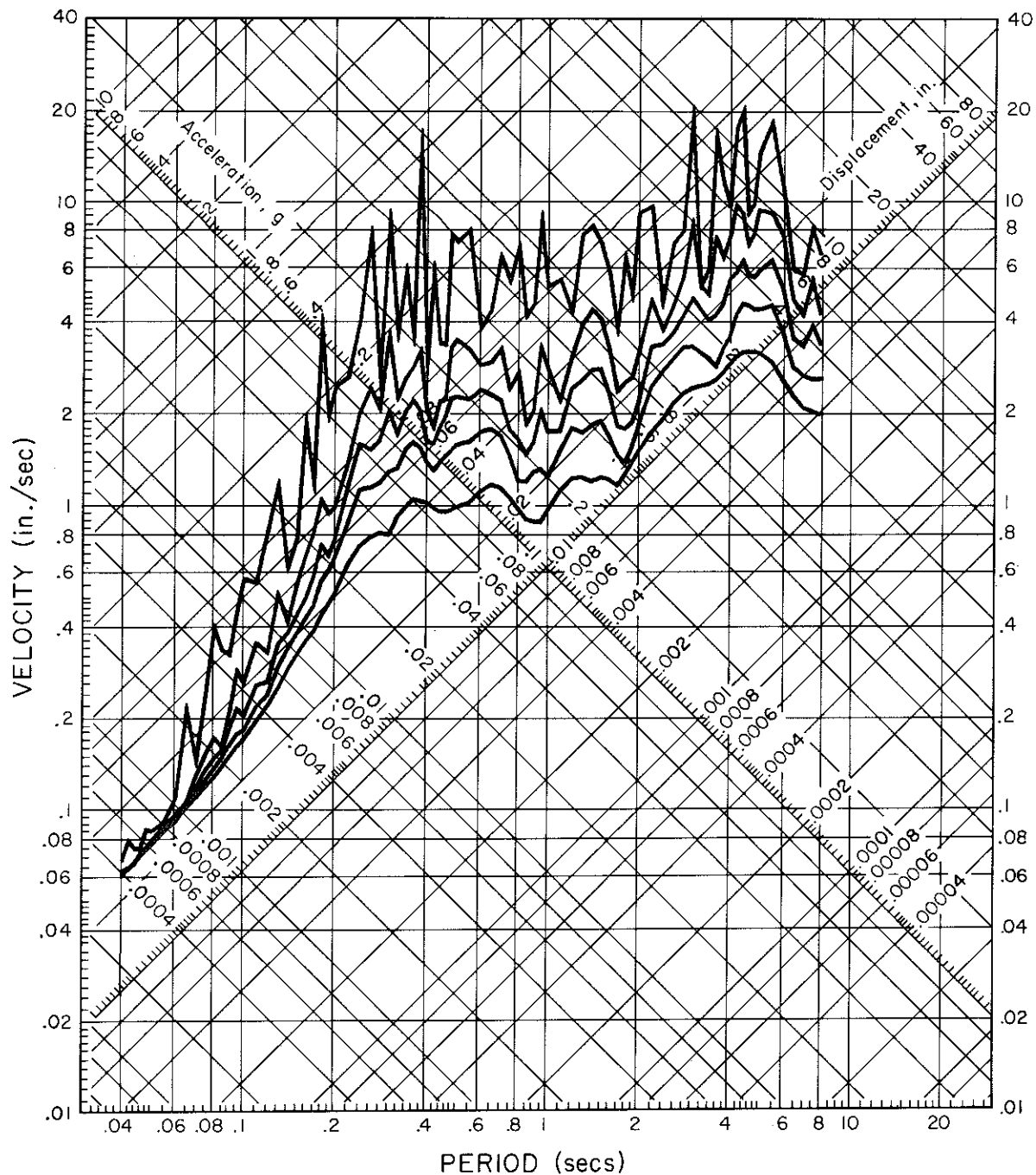


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111M180 71.123.0 4000 WEST CHAPMAN AVENUE, BASEMENT, ORANGE, CAL. COMP 5004

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

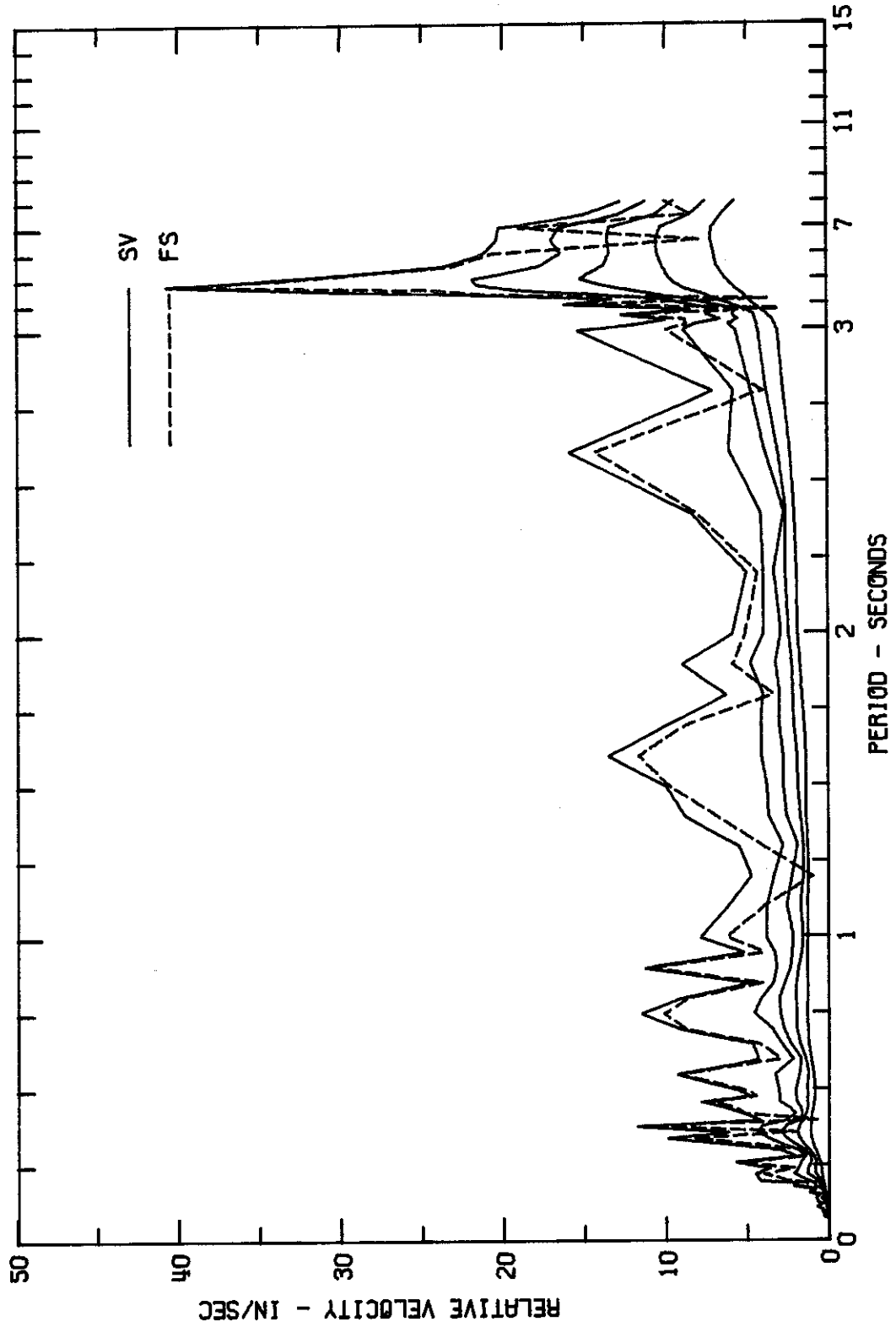
IIIM160 71.123.0 4000 WEST CHAPMAN AVENUE, BASEMENT, ORANGE, CAL. COMP 500W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111M180 71.123.0 4000 WEST CHAPMAN AVENUE, BASEMENT, ORANGE, CAL. COMP S90W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

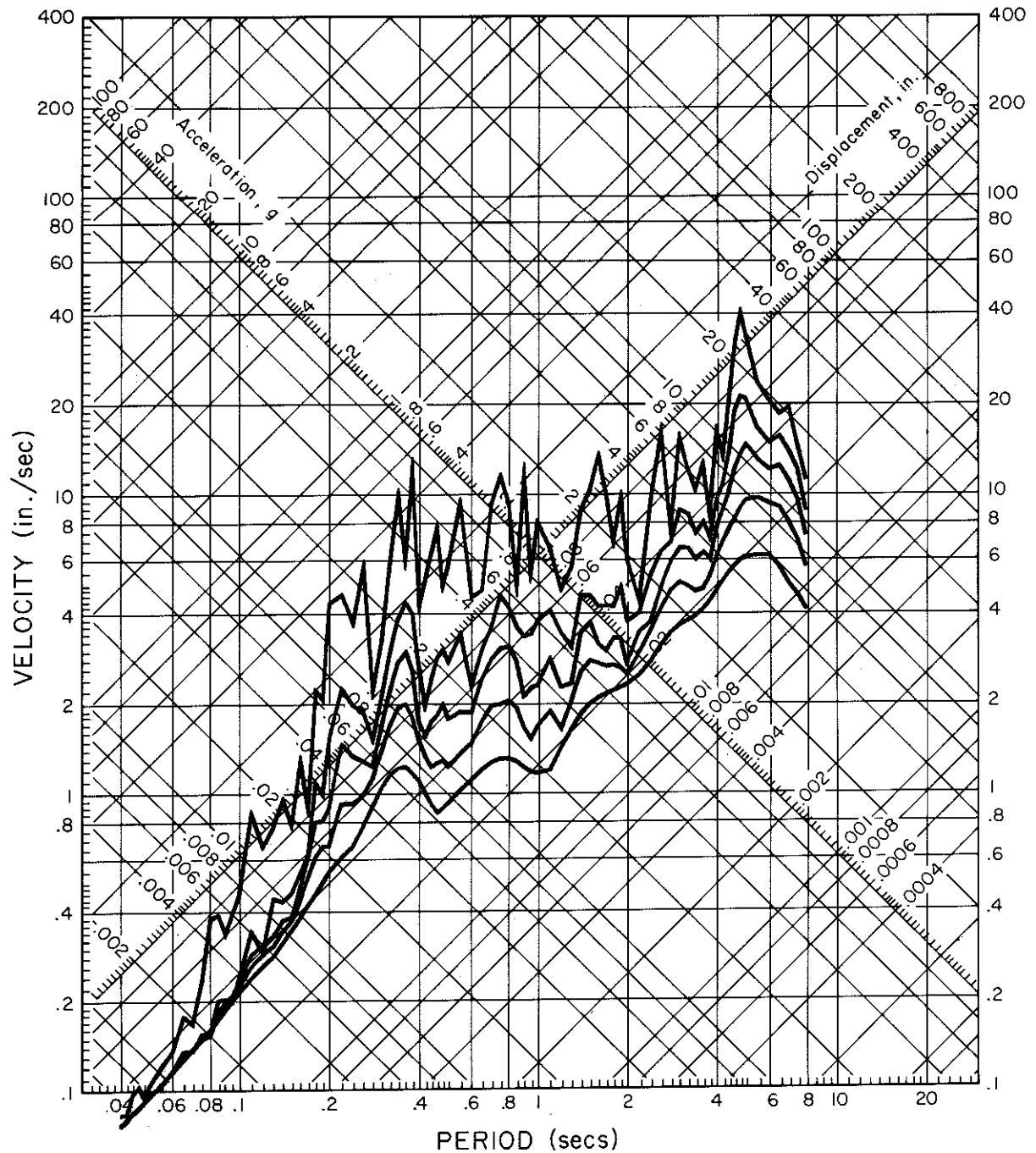


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIM180 71.123.0 4000 WEST CHAPMAN AVENUE, BASEMENT, ORANGE, CAL. COMP S90H

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIM180 71.123.0 4000 WEST CHAPMAN AVENUE, BASEMENT, ORANGE, CAL. COMP S90W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

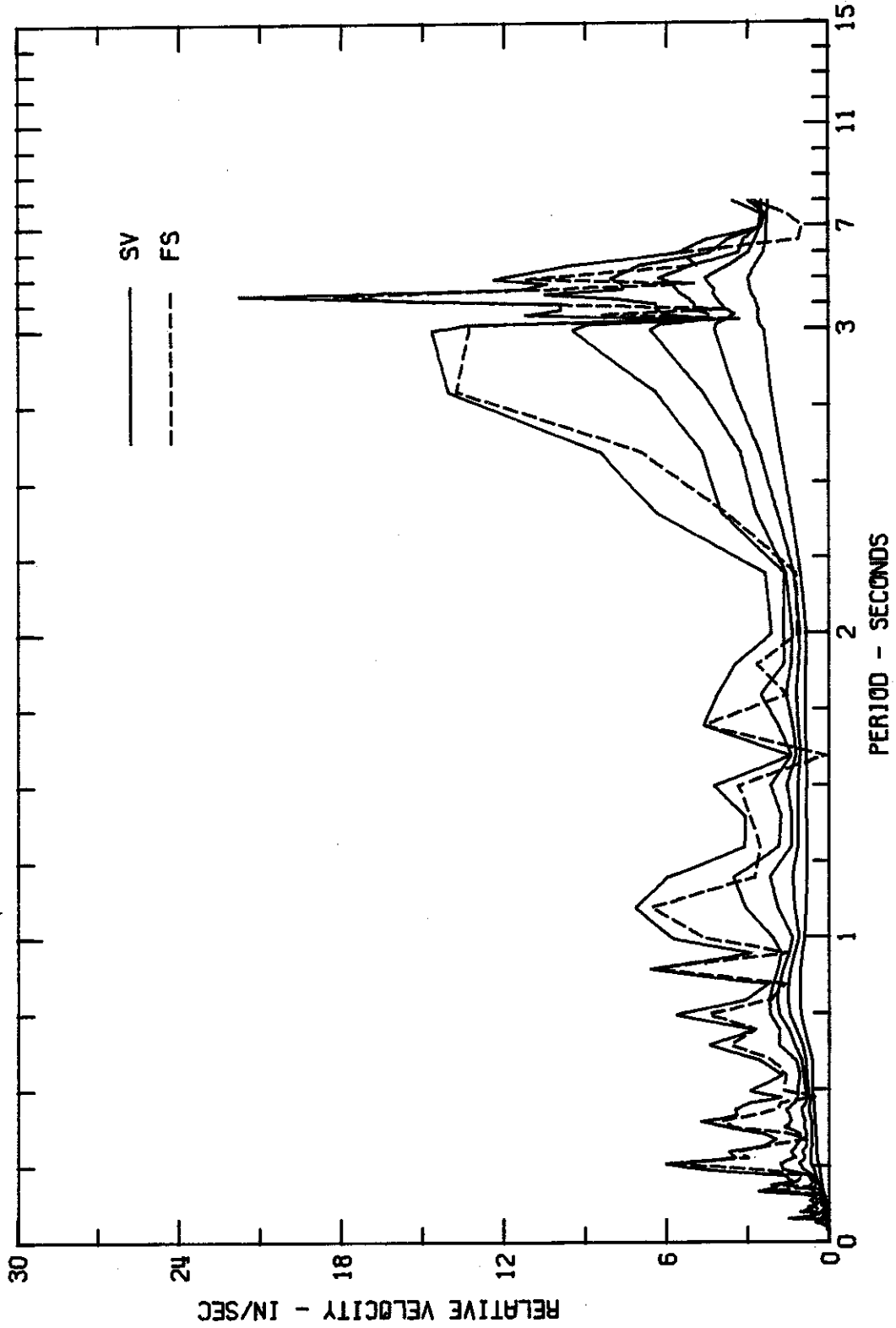
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IIIM180 71.123.0 4000 WEST CHAPMAN AVENUE, BASEMENT, ORANGE, CAL. COMP S90W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT										DAMPING = 2 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PER CENT										DAMPING = 20 PER CENT									
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV												
0.75	101-1	138-2	115-1	252-3	116-1	553-3	464-2	100-3	463-2	368-3	303-2	672-4	308-2	240-3	201-2	444-4	201-2	157-3	135-2	309-4	131-2	157-3	135-2	309-4	131-2	157-3	135-2	309-4	131-2	157-3	135-2	309-4	131-2	157-3	135-2	309-4	131-2	157-3	135-2	309-4	131-2								
0.80	865-2	119-2	918-2	190-3	937-2	535-3	418-2	855-4	420-2	396-3	308-2	636-4	311-2	262-3	209-2	425-4	206-2	168-3	132-2	293-4	132-2	168-3	132-2	293-4	132-2	168-3	132-2	293-4	132-2	168-3	132-2	293-4	132-2	168-3	132-2	293-4	132-2	168-3	132-2	293-4	132-2								
0.85	406-2	676-3	488-2	958-4	500-2	488-3	344-2	694-4	361-2	374-3	271-2	534-4	277-2	262-3	203-2	379-4	193-2	174-3	134-2	271-4	128-2	174-3	134-2	271-4	128-2	174-3	134-2	271-4	128-2	174-3	134-2	271-4	128-2	174-3	134-2	271-4	128-2	174-3	134-2	271-4	128-2								
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2.80	402-2	343-2	709-2	447-4	770-2	312-2	581-2	407-4	700-2	269-2	479-2	353-4	604-2	215-2	384-2	285-4	483-2	154-2	278-2	213-4	347-2	154-2	278-2	213-4	347-2	154-2	278-2	213-4	347-2	154-2	278-2	213-4	347-2	154-2	278-2	213-4	347-2	154-2	278-2	213-4	347-2								
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3.40	876-2	560-2	994-2	496-4	103-1	404-2	664-2	358-4	747-2	330-2	550-2	293-4	611-2	259-2	446-2	233-4	478-2	214-2	340-2	198-4	395-2	214-2	340-2	198-4	395-2	214-2	340-2	198-4	395-2	214-2	340-2	198-4	395-2	214-2	340-2	198-4	395-2	214-2	340-2	198-4	395-2								
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3.80	294-2	517-2	842-2	366-4	856-2	434-2	690-2	307-4	718-2	367-2	562-2	261-4	606-2	327-2	511-2	235-4	540-2	270-2	419-2	202-4	447-2	270-2	419-2	202-4	447-2	270-2	419-2	202-4	447-2	270-2	419-2	202-4	447-2	270.															

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
1111180 71.123.0 4000 WEST CHAPMAN AVENUE, BASEMENT, ORANGE, CAL. COMP DOWN
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

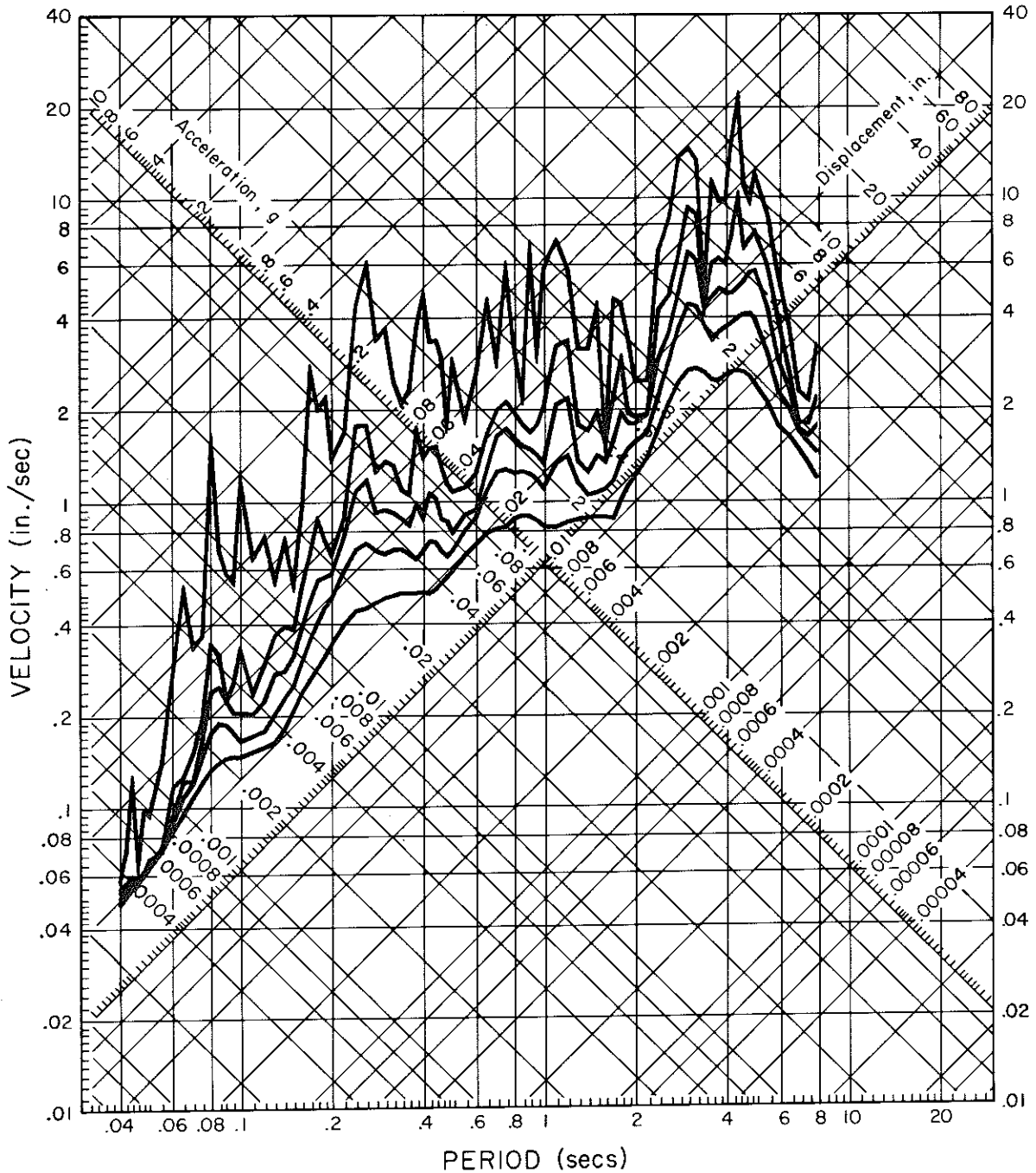


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111M180 71.123.0 4000 WEST CHAPMAN AVENUE, BASEMENT, ORANGE, CAL. COMP DOWN

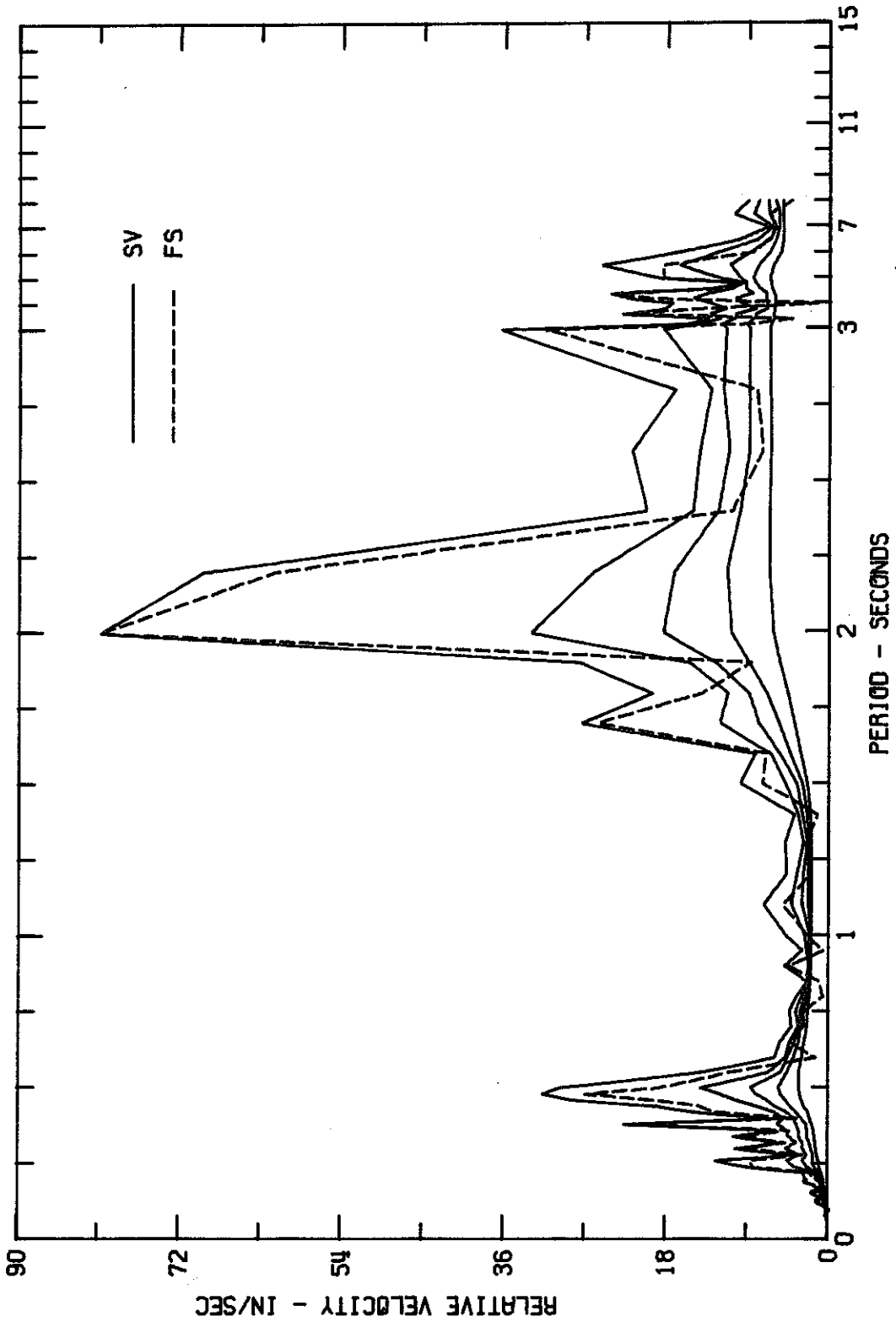
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



RELATIVE VELOCITY RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111M181 71.124.0 4000 WEST CHAPMAN AVENUE, 10TH FLOOR, ORANGE, CAL. COMP 300W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

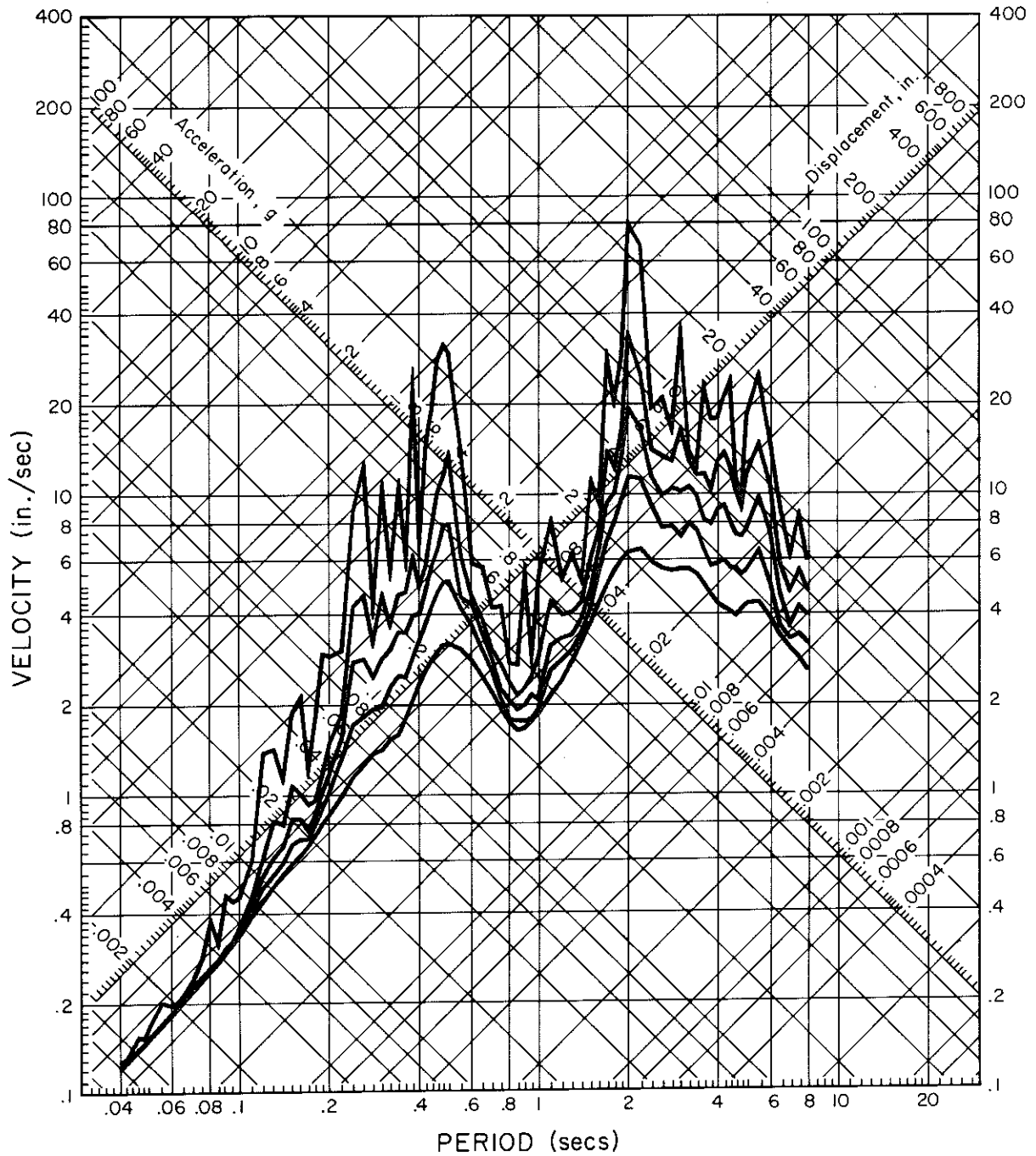


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIM181 71.124.0 4000 WEST CHAPMAN AVENUE, 10TH FLOOR, ORANGE, CAL. COMP S00W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

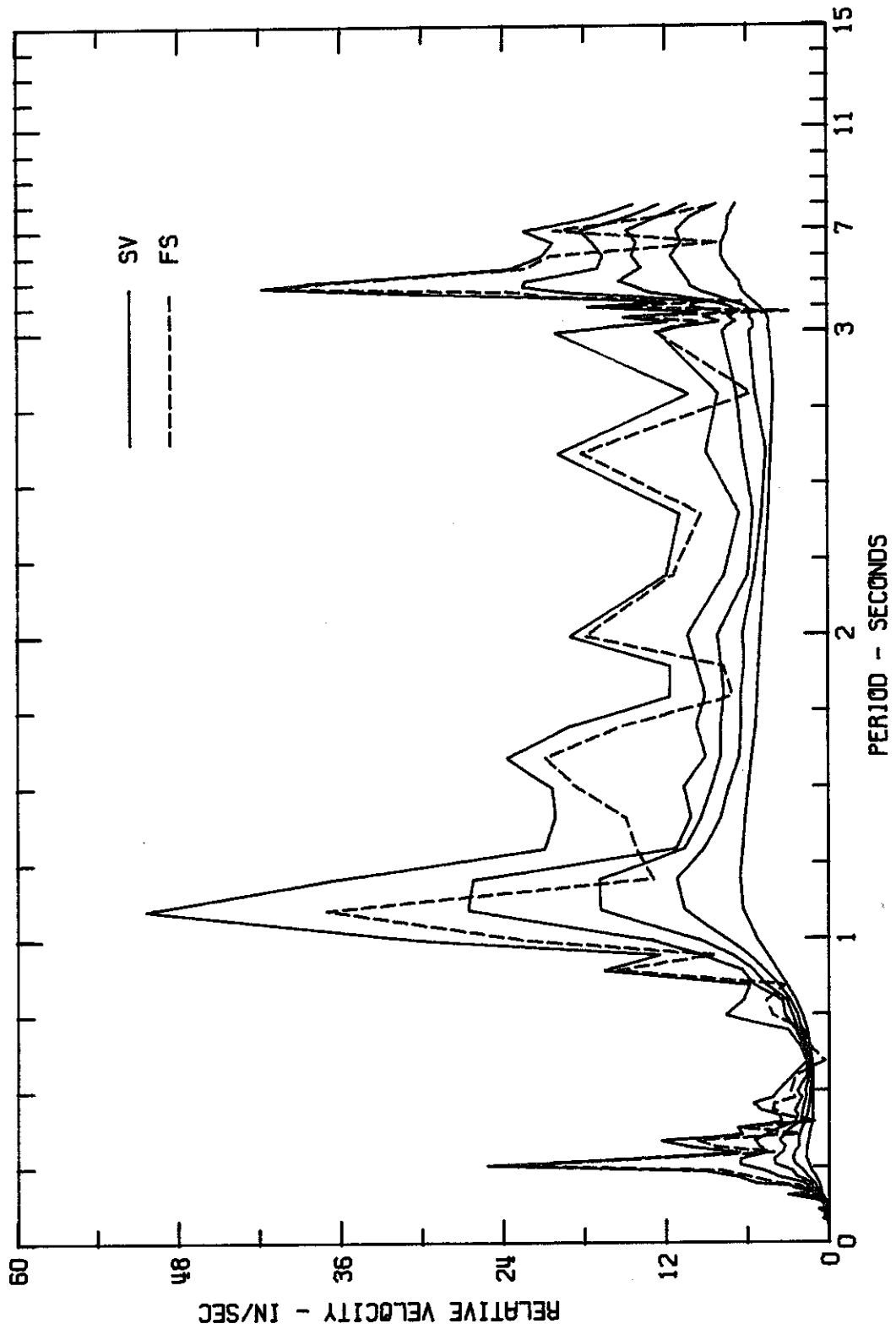


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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT					DAMPING = 2 PER CENT					DAMPING = 5 PER CENT					DAMPING = 10 PER CENT					DAMPING = 20 PER CENT						
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	
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0.042	142-4	878-6	248-4	509-4	131-3	854-6	178-4	495-4	127-3	853-6	178-4	494-4	127-3	851-6	179-4	493-4	127-3	849-6	180-4	493-4	127-3					
0.044	171-4	100-5	293-4	529-4	143-3	942-6	206-4	498-4	134-3	938-6	200-4	496-4	134-3	937-6	198-4	495-4	133-3	934-6	198-4	494-4	133-3					
0.045	164-4	113-5	362-4	550-4	155-3	103-5	224-4	500-4	141-3	103-5	221-4	498-4	140-3	102-5	219-4	496-4	140-3	102-5	217-4	496-4	140-3					
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0.050	338-4	133-5	661-4	547-4	168-3	122-5	262-4	502-4	154-3	122-5	261-4	500-4	153-3	122-5	259-4	499-4	153-3	121-5	257-4	498-4	152-3					
0.055	855-4	177-5	890-4	598-4	202-3	149-5	331-4	505-4	170-3	148-5	315-4	501-4	169-3	148-5	311-4	501-4	169-3	148-5	312-4	502-4	169-3					
0.060	680-4	188-5	812-4	534-4	197-3	179-5	394-4	510-4	188-3	177-5	378-4	504-4	186-3	177-5	368-4	505-4	186-3	177-5	373-4	506-4	185-3					
0.065	100-3	221-5	103-3	536-4	214-3	212-5	451-4	515-4	205-3	212-5	449-4	514-4	205-3	211-5	444-4	512-4	204-3	210-5	444-4	511-4	203-3					
0.070	105-3	270-5	124-3	564-4	242-3	255-5	577-4	532-4	229-3	251-5	566-4	523-4	225-3	248-5	543-4	520-4	223-3	246-5	526-4	516-4	220-3					
0.075	823-4	341-5	113-3	621-4	286-3	293-5	776-4	533-4	246-3	291-5	695-4	529-4	243-3	288-5	649-4	526-4	241-3	285-5	620-4	522-4	239-3					
0.080	228-3	484-5	271-3	773-4	380-3	336-5	956-4	537-4	264-3	334-5	922-4	535-4	262-3	330-5	754-4	530-4	259-3	327-5	724-4	527-4	257-3					
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0.095	112-3	665-5	255-3	753-4	439-3	491-5	130-3	557-4	325-3	490-5	116-3	558-4	324-3	487-5	115-3	552-4	322-3	478-5	109-3	546-4	316-3					
0.100	172-3	726-5	234-3	742-4	456-3	576-5	139-3	590-4	362-3	569-5	137-3	580-4	357-3	559-5	134-3	574-4	351-3	541-5	123-3	559-4	340-3					
0.110	223-3	106-4	411-3	898-4	607-3	806-5	226-3	681-4	460-3	765-5	208-3	650-4	437-3	726-5	180-3	621-4	414-3	687-5	155-3	586-4	392-3					
0.120	101-2	265-4	124-2	188-3	139-2	118-4	414-3	837-4	620-3	102-4	282-3	727-4	539-3	941-5	220-3	669-4	492-3	847-5	188-3	616-4	443-3					
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0.150	170-2	454-4	178-2	206-3	190-2	257-4	820-3	117-3	107-2	199-4	507-3	913-4	834-3	164-4	399-3	756-4	686-3	141-4	330-3	661-4	593-3					
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0.170	523-3	328-4	995-3	116-3	121-2	251-4	842-3	894-4	931-3	205-4	638-3	728-4	760-3	193-4	503-3	689-4	714-3	183-4	423-3	668-4	678-3					
0.180	139-2	533-4	166-2	168-3	186-2	276-4	822-3	873-4	963-3	251-4	716-3	792-4	877-3	229-4	566-3	731-4	801-3	212-4	475-3	692-4	743-3					
0.190	257-2	901-4	265-2	255-3	298-2	361-4	887-3	102-3	119-2	314-4	720-3	893-4	104-2	277-4	614-3	795-4	916-3	244-4	525-3	717-4	808-3					
0.200	237-2	929-4	256-2	237-3	292-2	476-4	126-2	122-3	149-2	378-4	965-3	964-4	118-2	329-4	770-3	845-4	103-2	276-4	594-3	736-4	867-3					
0.220	146-2	107-3	273-2	226-3	305-2	655-4	158-2	138-3	187-2	550-4	128-2	118-3	157-2	660-4	159-2	121-3	172-2	441-4	994-3	825-4	115-2					
0.240	837-2	343-3	894-2	610-3	900-2	164-3	379-2	291-3	430-2	106-3	242-2	191-3	279-2	660-4	159-2	121-3	172-2	441-4	994-3	825-4	115-2					
0.260	876-2	520-3	125-1	787-3	125-1	193-3	454-2	291-3	467-2	118-3	282-2	180-3	286-2	757-4	178-2	116-3	182-2	520-4	111-2	842-4	125-2					
0.280	283-2	191-3	406-2	250-3	430-2	144-3	317-2	190-3	325-2	110-3	235-2	147-3	248-2	868-4	170-2	115-3	194-2	615-4	128-2	850-4	138-2					
0.300	900-2	504-3	104-1	573-3	105-1	223-3	465-2	252-3	467-2	136-3	282-2	154-3	286-2	943-4	190-2	110-3	197-2	676-4	140-2	810-4	141-2					
0.320	469-2	285-3	550-2	285-3	561-2	189-3	352-2	289-3	371-2	158-3	282-2	159-3	310-2	117-3	213-2	121-3	231-2	786-4	151-2	836-4	154-2					
0.340	965-2	580-3	105-1	513-3	107-1	254-3	435-2	224-3	465-2	190-3	331-2	171-3	352-2	136-3	241-2	124-3	251-2	865-4	161-2	819-4	160-2					
0.360	429-2	355-3	594-2	280-3	620-2	274-3	452-2	216-3	479-2	201-3	331-2	157-3	350-2	143-3	239-2	114-3	249-2	103-3	166-2	844-4	180-2					
0.380	224-1	139-2	226-1	986-3	230-1	377-3	559-2	268-3	624-2	241-3	352-2	172-3	399-2	175-3	246-2	125-3	289-2	126-3	182-2	934-4	209-2					
0.400	347-2	444-3	657-2	284-3	698-2	318-3	491-2	203-3	500-2	258-3	381-2	165-3	405-2	212-3	297-2	137-3	333-2	151-3	208-2	100-3	237-2					
0.420	127-1	100-2	149-1	584-3	150-1	396-3	609-2	229-3	592-2	327-3	470-2	189-3	490-2	253-3	364-2	149-3	379-2	175-3	233-2	106-3	263-2					
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0.480	269-1	244-2	316-1	108-2	320-1	901-3	120-1	401-3	118-1	609-3	806-2	273-3	798-2	394-3	535-2	178-3	480-2	222-3	299-2	114-3	304-2					
0.500	186-1	237-2	296-1	971-3	298-1	109-2	141-1	446-3	137-1	643-3	856-2	266-3	808-2	413-3	550-2	171-3	519-2	256-3	331-2	111-3	322-2					
0.550	108-1	123-2	140-1	417-3	141-1	551-3	654-2	186-3	630-2	402-3	516-2	135-3	459-2	369-3	454-2	128-3	422-2</									

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111M181 71.124.0 4000 WEST CHAPMAN AVENUE, 10TH FLOOR, ORANGE, CAL. COMP S90W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

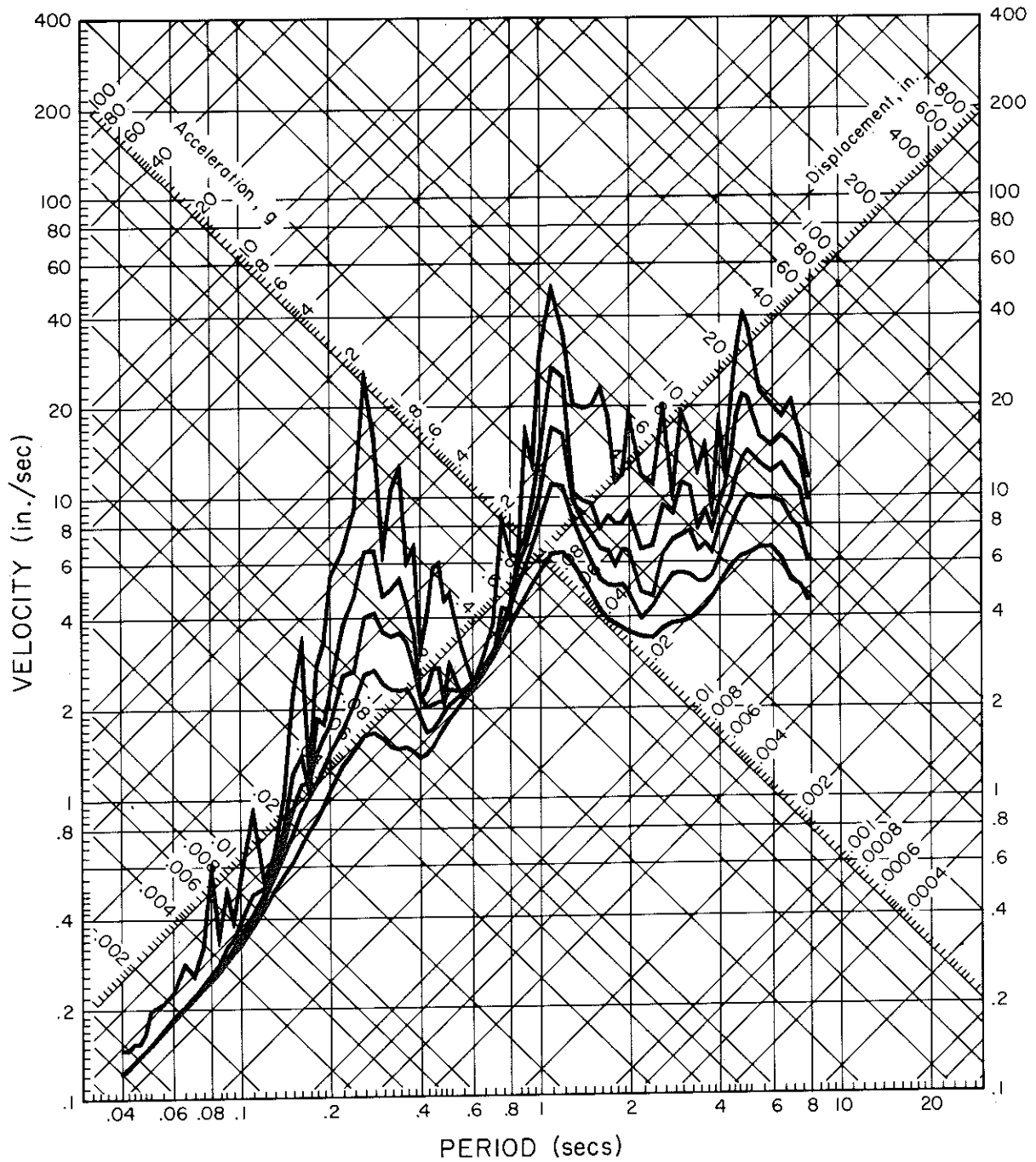


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIM181 71.124.0 4000 WEST CHAPMAN AVENUE, 10TH FLOOR, ORANGE, CAL. COMP S90W

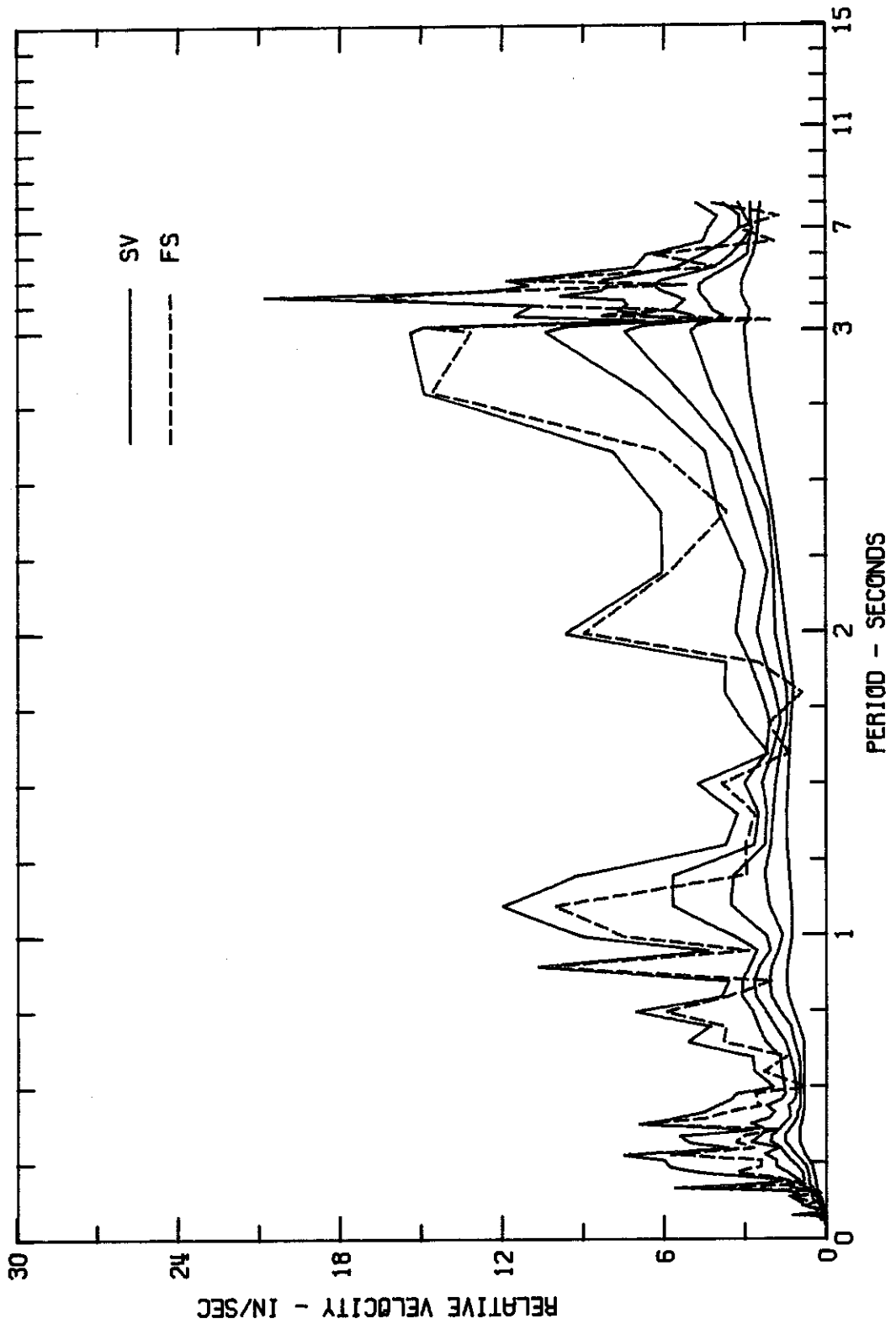
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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																	DAMPING = 20 PER CENT
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0.80	466-2	836-3	631-2	133-3	656-2	543-3	346-2	868-4	426-2	579-3	317-2	927-4	454-2	559-3	292-2	903-4	439-2
0.85	324-2	878-3	582-2	124-3	649-2	915-3	553-2	129-3	676-2	817-3	465-2	116-3	604-2	710-3	376-2	102-3	525-2
0.90	157-1	241-2	166-1	305-3	168-1	108-2	647-2	136-3	757-2	100-2	561-2	127-3	701-2	865-3	482-2	110-3	604-2
0.95	849-2	199-2	124-1	225-3	131-1	150-2	942-2	170-3	955-2	126-2	724-2	144-3	839-2	107-2	604-2	123-3	710-2
1.00	223-1	478-2	295-1	489-3	300-1	221-2	130-1	226-3	139-1	162-2	953-2	167-3	102-1	132-2	746-2	137-3	835-2
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1.20	129-1	686-2	369-1	487-3	359-1	490-2	262-1	348-3	256-1	317-2	169-1	226-3	166-1	212-2	112-1	154-3	111-1
1.30	142-1	430-2	209-1	260-3	207-1	216-2	112-1	131-3	104-1	204-2	105-1	124-3	989-2	177-2	912-2	109-3	857-2
1.40	149-1	447-2	202-1	233-3	200-1	220-2	101-1	115-3	989-2	189-2	936-2	992-4	848-2	159-2	794-2	854-4	717-2
1.50	185-1	491-2	204-1	223-3	205-1	231-2	107-1	105-3	970-2	182-2	863-2	832-4	762-2	147-2	737-2	688-4	617-2
1.60	209-1	603-2	238-1	240-3	236-1	203-2	908-2	815-4	800-2	175-2	793-2	704-4	687-2	138-2	659-2	569-4	543-2
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1.80	706-2	326-2	116-1	103-3	114-1	238-2	911-2	752-4	830-2	172-2	768-2	547-4	601-2	147-2	645-2	479-4	515-2
1.90	778-2	365-2	116-1	103-3	120-1	253-2	975-2	717-4	836-2	206-2	796-2	589-4	682-2	157-2	620-2	460-4	520-2
2.00	179-1	609-2	191-1	153-3	191-1	290-2	104-1	743-4	912-2	213-2	817-2	549-4	670-2	154-2	633-2	407-4	484-2
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2.60	182-1	824-2	200-1	124-3	195-1	396-2	905-2	599-4	957-2	274-2	635-2	418-4	663-2	210-2	461-2	324-4	509-2
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3.40	951-2	670-2	117-1	592-4	123-1	437-2	802-2	386-4	807-2	366-2	680-2	325-4	676-2	288-2	557-2	261-4	534-2
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4.80	417-1	319-1	417-1	141-3	418-1	170-1	225-1	758-4	223-1	104-1	143-1	467-4	137-1	745-2	101-1	338-4	975-2
5.00	373-1	299-1	381-1	122-3	376-1	172-1	223-1	704-4	216-1	115-1	154-1	474-4	145-1	817-2	102-1	343-4	102-1
5.50	223-1	199-1	234-1	676-4	228-1	140-1	169-1	476-4	160-1	114-1	137-1	389-4	131-1	879-2	109-1	303-4	100-1
6.00	204-1	196-1	210-1	559-4	206-1	143-1	166-1	408-4	150-1	117-1	144-1	337-4	123-1	965-2	116-1	283-4	101-1
6.50	797-2	194-1	203-1	471-4	188-1	167-1	173-1	404-4	161-1	135-1	141-1	330-4	131-1	100-1	108-1	252-4	976-2
7.00	202-1	237-1	224-1	496-4	213-1	167-1	182-1	349-4	150-1	129-1	148-1	271-4	116-1	951-2	112-1	202-4	856-2
7.50	127-1	196-1	172-1	356-4	164-1	162-1	148-1	295-4	135-1	128-1	125-1	235-4	107-1	945-2	101-1	178-4	792-2
8.00	794-2	148-1	143-1	237-4	116-1	125-1	124-1	201-4	988-2	102-1	103-1	164-4	803-2	785-2	818-2	132-4	617-2

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111M181 71.124.0 4000 WEST CHAPMAN AVENUE, 10TH FLOOR, ORANGE, CAL. COMP DOWN
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

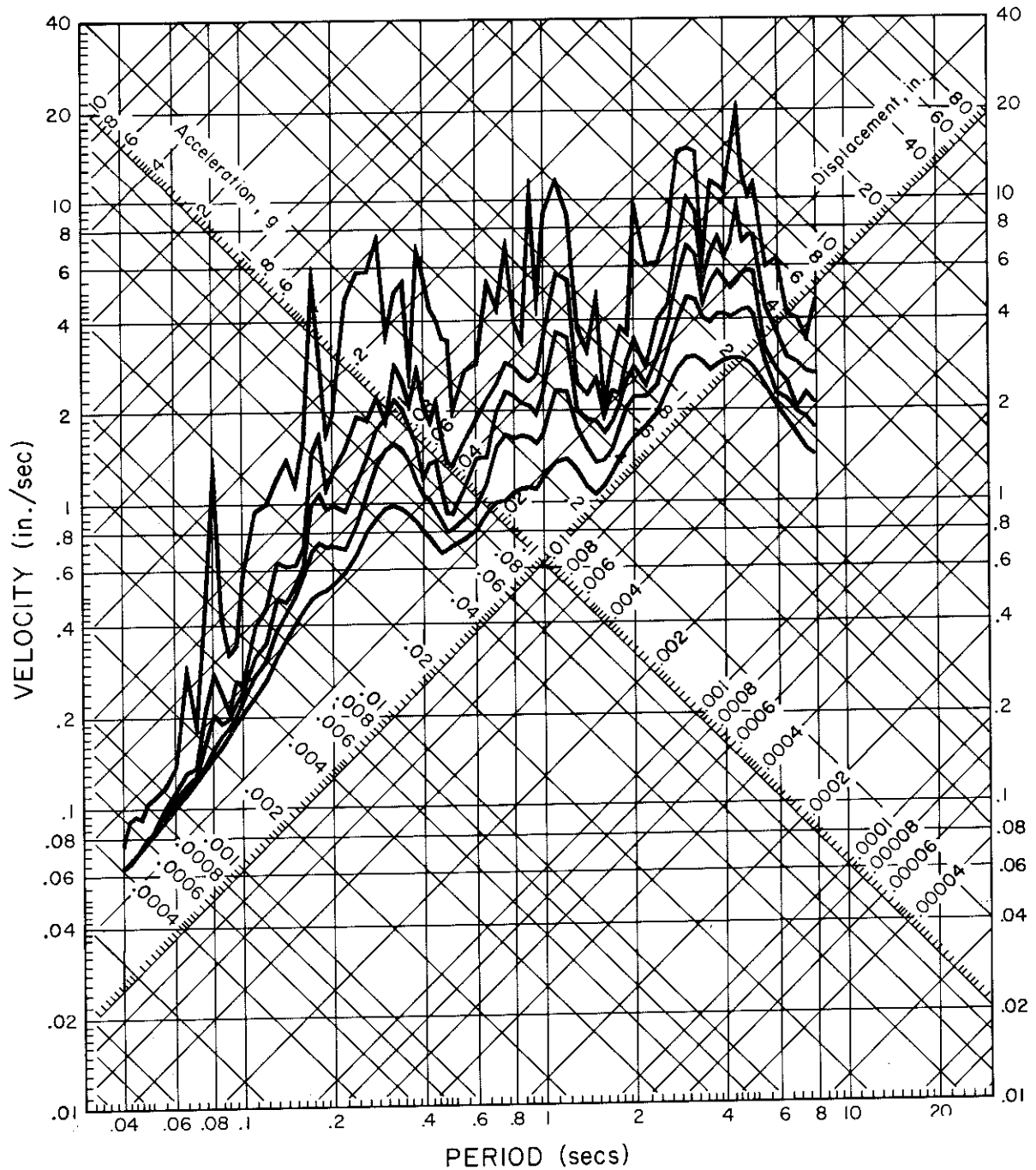


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIM181 71.124.0 4000 WEST CHAPMAN AVENUE, 10TH FLOOR, ORANGE, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIM181 71.124.0 4000 WEST CHAPMAN AVENUE, 10TH FLCCR, GRANGE, CAL. COMP DOWN

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

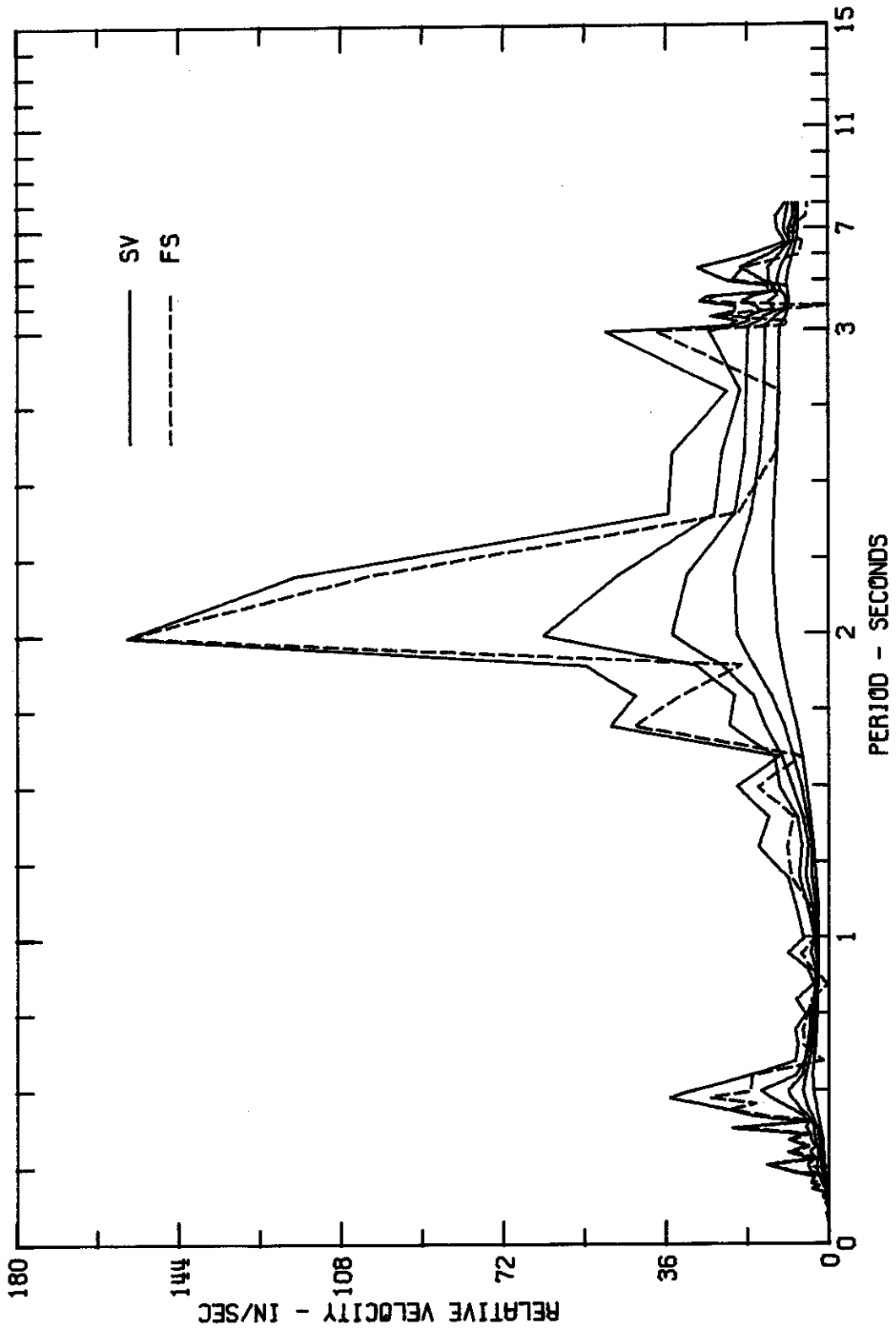
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0.042	252-4	613-6	489-4	355-4	918-4	446-6	178-4	258-4	667-4	441-6	167-4	256-4	661-4	445-6	151-4	258-4	666-4
0.044	313-4	663-6	427-4	350-4	947-4	489-6	188-4	258-4	698-4	489-6	174-4	258-4	699-4	492-6	168-4	260-4	703-4
0.046	254-4	678-6	429-4	327-4	926-4	547-6	203-4	264-4	748-4	545-6	192-4	263-4	744-4	543-6	187-4	262-4	742-4
0.048	358-4	797-6	424-4	354-4	104-3	614-6	229-4	272-4	804-4	601-6	214-4	266-4	787-4	597-6	205-4	265-4	782-4
0.050	695-4	855-6	752-4	349-4	107-3	660-6	241-4	270-4	830-4	654-6	227-4	267-4	821-4	654-6	222-4	268-4	822-4
0.055	474-4	103-5	671-4	349-4	118-3	880-6	295-4	297-4	100-3	850-6	283-4	287-4	971-4	821-6	266-4	278-4	938-4
0.060	968-4	133-5	937-4	378-4	139-3	110-5	390-4	314-4	115-3	104-5	341-4	296-4	109-3	100-5	312-4	286-4	105-3
0.065	227-3	296-5	230-3	717-4	286-3	137-5	591-4	331-4	132-3	123-5	445-4	300-4	119-3	118-5	382-4	289-4	114-3
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0.075	253-3	563-5	414-3	102-3	471-3	254-5	140-3	461-4	212-3	197-5	898-4	357-4	165-3	166-5	701-4	306-4	139-3
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0.200	173-2	636-4	195-2	162-3	199-2	410-4	148-2	114-3	154-2	334-4	903-3	695-4	955-3	250-4	718-3	533-4	716-3
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0.300	269-2	173-3	360-2	196-3	362-2	892-4	175-2	101-3	186-2	926-4	173-2	105-3	194-2	727-4	137-2	833-4	152-2
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0.550	233-2	244-3	268-2	825-4	278-2	143-3	166-2	483-4	163-2	100-3	120-2	343-4	114-2	792-4	978-3	275-4	905-3
0.600	148-2	278-3	274-2	790-4	291-2	183-3	172-2	520-4	192-2	135-3	136-2	387-4	142-2	941-4	102-2	271-4	986-3
0.650	382-2	564-3	514-2	136-3	545-2	230-3	227-2	559-4	223-2	148-3	154-2	360-4	143-2	122-3	121-2	303-4	118-2
0.700	373-2	494-3	431-2	103-3	443-2	278-3	253-2	582-4	250-2	226-3	193-2	478-4	203-2	172-3	134-2	371-4	155-2

IIIM181 71.124.0 4000 WEST CHAPMAN AVENUE, 10TH FLOOR, ORANGE, CAL. COMP DOWN

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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0.75	595-2	862-3	710-2	156-3	722-2	352-3	274-2	641-4	294-2	280-3	226-2	515-4	235-2	202-3	176-2	381-4	165-2	122-3	125-2	258-4	102-2				
0.80	364-2	509-3	389-2	813-4	399-2	360-3	313-2	577-4	283-2	289-3	263-2	464-4	227-2	209-3	205-2	341-4	164-2	139-3	141-2	237-4	109-2				
0.85	201-2	467-3	360-2	661-4	345-2	354-3	312-2	501-4	261-2	291-3	267-2	413-4	215-2	227-3	212-2	327-4	168-2	152-3	147-2	230-4	112-2				
0.90	106-1	154-2	107-1	194-3	107-1	194-3	107-1	194-3	282-2	302-3	247-2	383-4	210-2	238-3	201-2	307-4	166-2	162-3	145-2	218-4	113-2				
0.95	286-2	709-3	436-2	804-4	469-2	406-3	256-2	462-4	269-2	298-3	209-2	340-4	197-2	240-3	179-2	278-4	158-2	169-3	137-2	206-4	111-2				
1.00	753-2	147-2	905-2	150-3	925-2	574-3	345-2	588-4	361-2	373-3	222-2	384-4	234-2	273-3	164-2	284-4	172-2	194-3	126-2	215-4	121-2				
1.10	100-1	209-2	120-1	176-3	119-1	102-2	571-2	866-4	584-2	655-3	354-2	556-4	374-2	414-3	214-2	355-4	236-2	240-3	130-2	223-4	137-2				
1.20	296-2	174-2	927-2	123-3	912-2	106-2	567-2	754-4	555-2	682-3	344-2	487-4	357-2	448-3	229-2	324-4	234-2	269-3	138-2	205-4	141-2				
1.30	298-2	786-3	369-2	476-4	380-2	515-3	266-2	312-4	248-2	420-3	226-2	255-4	203-2	366-3	205-2	227-4	177-2	266-3	148-2	175-4	128-2				
1.40	264-2	710-3	328-2	370-4	318-2	511-3	250-2	267-4	229-2	422-3	221-2	221-4	189-2	340-3	195-2	182-4	152-2	253-3	148-2	145-4	113-2				
1.50	388-2	515-2	478-2	525-4	483-2	620-3	305-2	282-4	260-2	447-3	239-2	204-4	187-2	327-3	188-2	153-4	137-2	256-3	142-2	128-4	107-2				
1.60	138-2	526-3	215-2	210-4	206-2	492-3	221-2	197-4	193-2	438-3	200-2	176-4	172-2	355-3	170-2	144-4	135-2	292-3	137-2	123-4	114-2				
1.70	215-2	816-3	308-2	288-4	301-2	638-3	207-2	226-4	236-2	507-3	168-2	180-4	187-2	412-3	146-2	147-4	152-2	345-3	129-2	129-4	127-2				
1.80	903-3	110-2	375-2	349-4	386-2	658-3	240-2	207-4	229-2	615-3	189-2	195-4	215-2	517-3	146-2	166-4	180-2	405-3	122-2	136-4	141-2				
1.90	251-2	110-2	369-2	313-4	365-2	914-3	282-2	259-4	302-2	780-3	226-2	222-4	258-2	629-3	169-2	181-4	208-2	466-3	132-2	140-4	154-2				
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2.20	582-2	217-2	607-2	459-4	621-2	990-3	302-2	209-4	282-2	857-3	217-2	181-4	244-2	789-3	197-2	169-4	225-2	631-3	174-2	143-4	180-2				
2.40	367-2	241-2	612-2	429-4	633-2	156-2	399-2	278-4	410-2	116-2	286-2	207-4	304-2	941-3	217-2	170-4	246-2	758-3	202-2	145-4	198-2				
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2.80	146-1	666-2	149-1	869-4	149-1	321-2	650-2	419-4	721-2	250-2	543-2	328-4	562-2	181-2	422-2	241-4	406-2	124-2	283-2	172-4	279-2				
3.00	131-1	733-2	154-1	834-4	153-1	498-2	104-1	566-4	104-1	344-2	748-2	393-4	721-2	231-2	501-2	268-4	485-2	145-2	304-2	177-4	304-2				
3.20	146-1	758-2	148-1	757-4	148-1	471-2	945-2	471-4	926-2	340-2	676-2	341-4	667-2	241-2	479-2	247-4	475-2	156-2	302-2	170-4	307-2				
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3.80	578-2	686-2	112-1	485-4	113-1	465-2	771-2	329-4	769-2	357-2	572-2	254-4	591-2	258-2	420-2	186-4	426-2	174-2	282-2	131-4	288-2				
4.00	108-1	690-2	108-1	441-4	108-1	419-2	736-2	268-4	658-2	351-2	543-2	225-4	552-2	270-2	434-2	177-4	424-2	189-2	294-2	130-4	297-2				
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4.60	123-1	901-2	125-1	435-4	123-1	540-2	828-2	261-4	738-2	423-2	617-2	205-4	579-2	322-2	472-2	159-4	440-2	220-2	313-2	115-4	300-2				
4.80	518-2	801-2	110-1	355-4	104-1	592-2	808-2	263-4	775-2	453-2	640-2	202-4	594-2	337-2	469-2	153-4	442-2	224-2	314-2	108-4	293-2				
5.00	115-1	923-2	118-1	378-4	116-1	616-2	827-2	252-4	775-2	464-2	602-2	191-4	584-2	335-2	446-2	141-4	421-2	225-2	311-2	100-4	282-2				
5.50	410-2	534-2	705-2	160-4	116-1	616-2	827-2	252-4	775-2	464-2	602-2	191-4	584-2	335-2	446-2	141-4	421-2	225-2	311-2	100-4					
6.00	641-2	619-2	667-2	176-4	649-2	350-2	451-2	996-5	366-2	260-2	350-2	748-5	322-2	256-2	356-2	896-5	293-2	211-2	289-2	798-5	241-2				
6.50	192-2	437-2	455-2	105-4	422-2	315-2	369-2	763-5	304-2	258-2	308-2	631-5	250-2	226-2	282-2	570-5	218-2	192-2	255-2	542-5	186-2				
7.00	327-2	455-2	436-2	951-5	409-2	325-2	323-2	679-5	292-2	228-2	270-2	480-5	204-2	221-2	273-2	482-5	199-2	187-2	250-2	463-5	168-2				
7.50	176-2	417-2	403-2	436-2	349-2	349-2	320-2	591-5	272-2	274-2	301-2	503-5	230-2	228-2	279-2	431-5	191-2	180-2	246-2	395-5	151-2				
8.00	426-2	581-2	481-2	929-5	456-2	339-2	381-2	542-5	266-2	271-2	326-2	438-5	213-2	224-2	281-2	377-5	176-2	183-2	240-2	352-5	144-2				

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111M182 71.125.0 4000 WEST CHAPMAN AVENUE, 19TH FLOOR, ORANGE, CAL. COMP SOOW
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

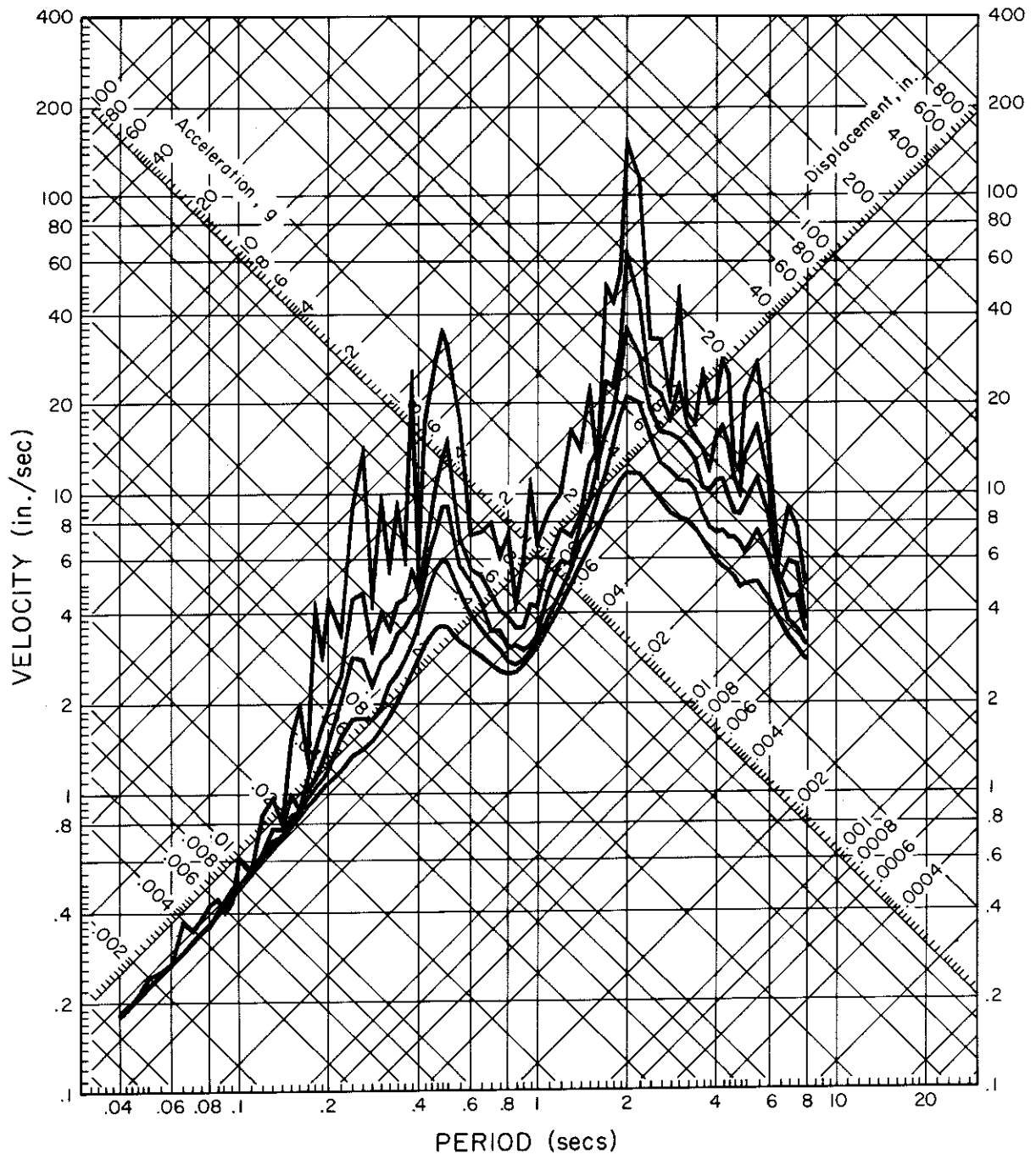


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIM182 71.125.0 4000 WEST CHAPMAN AVENUE, 19TH FLOOR, ORANGE, CAL. COMP 500W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



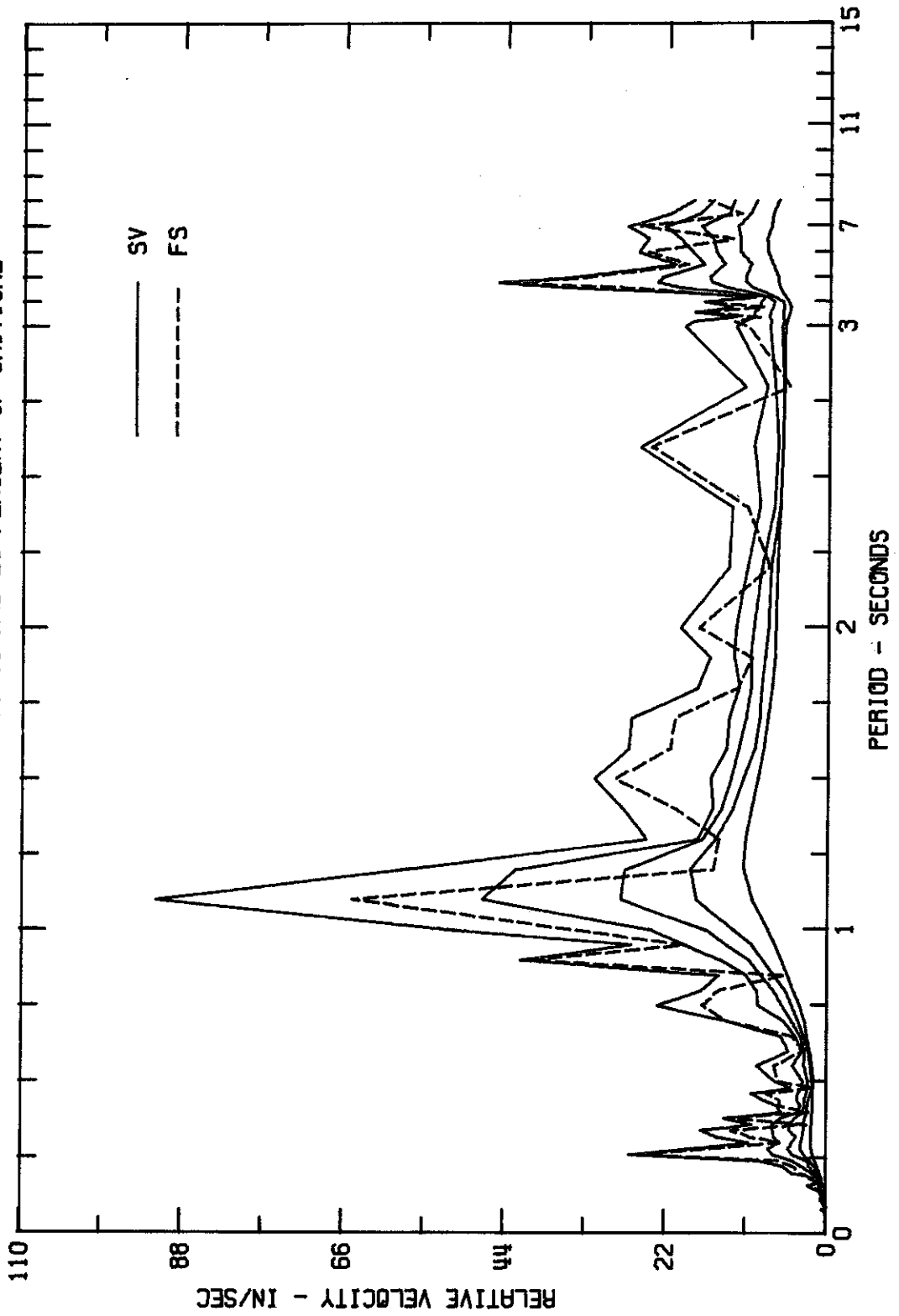
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIM182 71.125.0 4000 WEST CHAPMAN AVENUE, 19TH FLOOR, ORANGE, CAL. COMP SOOM

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
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DAMPING = 2 PER CENT																	
DAMPING = 5 PER CENT																	
DAMPING = 10 PER CENT																	
DAMPING = 20 PER CENT																	
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0.042	270-4	129-5	283-4	750-4	193-3	127-5	192-4	736-4	189-3	126-5	189-4	735-4	189-3	126-5	183-4	735-4	189-3
0.044	261-4	140-5	279-4	740-4	200-3	139-5	212-4	736-4	199-3	139-5	205-4	736-4	198-3	139-5	203-4	736-4	198-3
0.046	122-4	154-5	257-4	748-4	211-3	152-5	221-4	736-4	208-3	152-5	221-4	736-4	208-3	152-5	218-4	737-4	207-3
0.048	318-4	174-5	466-4	776-4	229-3	166-5	241-4	738-4	217-3	166-5	240-4	738-4	217-3	166-5	237-4	737-4	217-3
0.050	542-4	193-5	579-4	790-4	242-3	181-5	267-4	744-4	228-3	181-5	258-4	740-4	227-3	180-5	256-4	739-4	226-3
0.055	118-3	224-5	135-3	759-4	256-3	218-5	328-4	738-4	249-3	218-5	315-4	738-4	249-3	218-5	314-4	739-4	249-3
0.060	670-4	261-5	796-4	743-4	273-3	259-5	419-4	737-4	271-3	259-5	389-4	737-4	271-3	260-5	385-4	739-4	272-3
0.065	118-4	387-5	142-3	939-4	374-3	305-5	532-4	738-4	294-3	304-5	494-4	745-4	320-3	305-5	566-4	744-4	319-3
0.070	129-3	389-5	140-3	813-4	350-3	360-5	628-4	753-4	323-3	357-5	591-4	747-4	344-3	357-5	666-4	748-4	344-3
0.075	212-3	461-5	219-3	839-4	386-3	414-5	769-4	753-4	347-3	410-5	713-4	747-4	364-3	411-5	775-4	752-4	363-3
0.080	162-3	546-5	230-3	872-4	428-3	460-5	918-4	735-4	361-3	464-5	828-4	742-4	364-3	470-5	866-4	766-4	369-3
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0.090	252-3	576-5	256-3	728-4	402-3	639-5	968-4	807-4	446-3	630-5	928-4	797-4	440-3	619-5	931-4	782-4	432-3
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0.100	280-4	969-5	217-3	991-4	608-3	783-5	133-3	800-4	491-3	790-5	121-3	808-4	496-3	784-5	116-3	805-4	493-3
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0.150	472-3	303-4	112-2	208-3	155-2	237-4	583-3	107-3	993-3	204-4	415-3	929-4	854-3	194-4	373-3	888-4	813-3
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0.170	651-3	358-4	962-3	127-3	132-2	307-4	722-3	108-3	113-2	276-4	567-3	981-4	102-2	263-4	534-3	935-4	974-3
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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111M182 71.125.0 4000 WEST CHAPMAN AVENUE, 19TH FLOOR, ORANGE, CAL. COMP S90W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

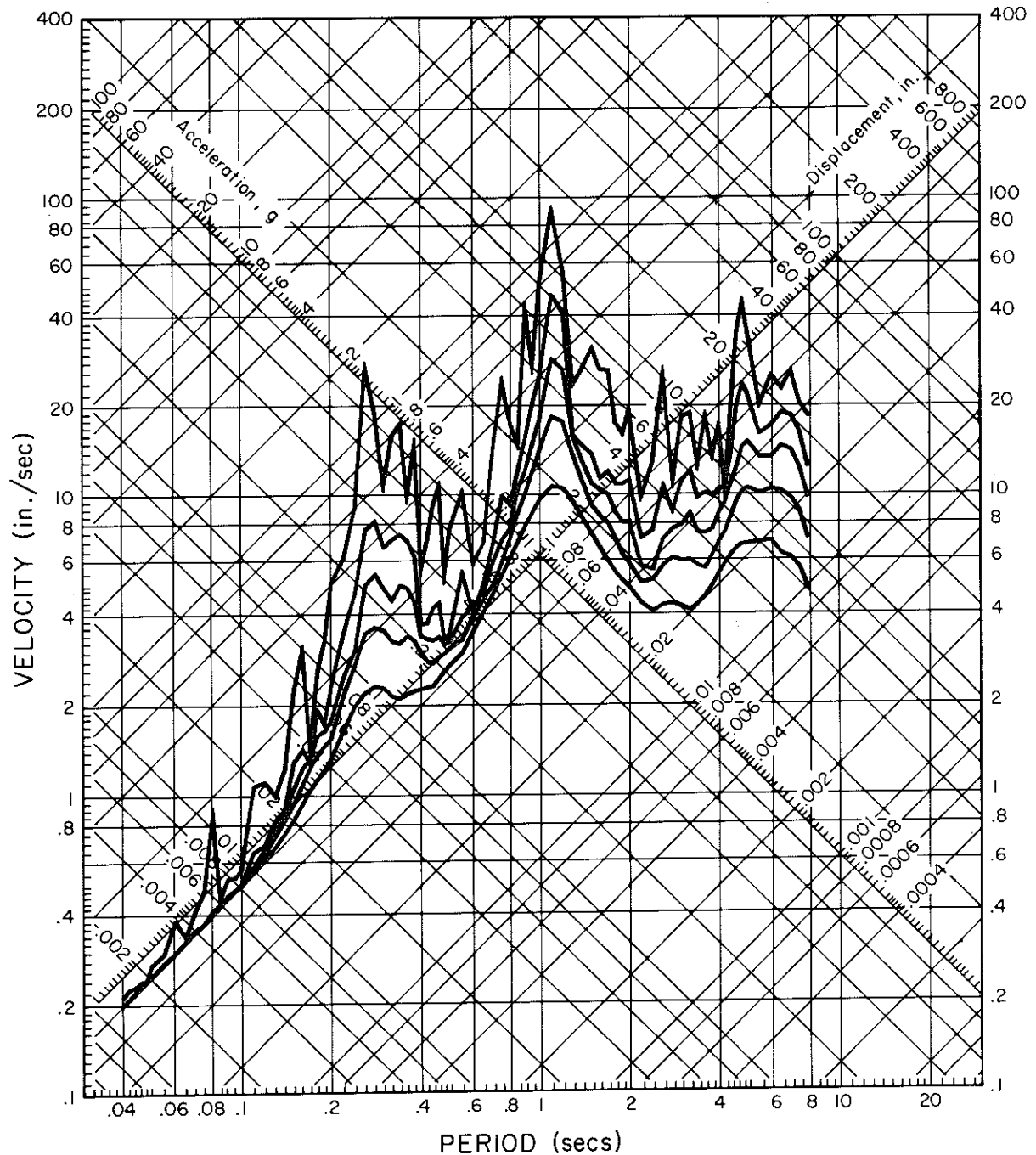


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIM182 71.125.0 4000 WEST CHAPMAN AVENUE, 19TH FLOOR, ORANGE, CAL. COMP S90W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIM182 71.125.0 4000 WEST CHAPMAN AVENUE, 19TH FLOOR, ORANGE, CAL. COMP S90W

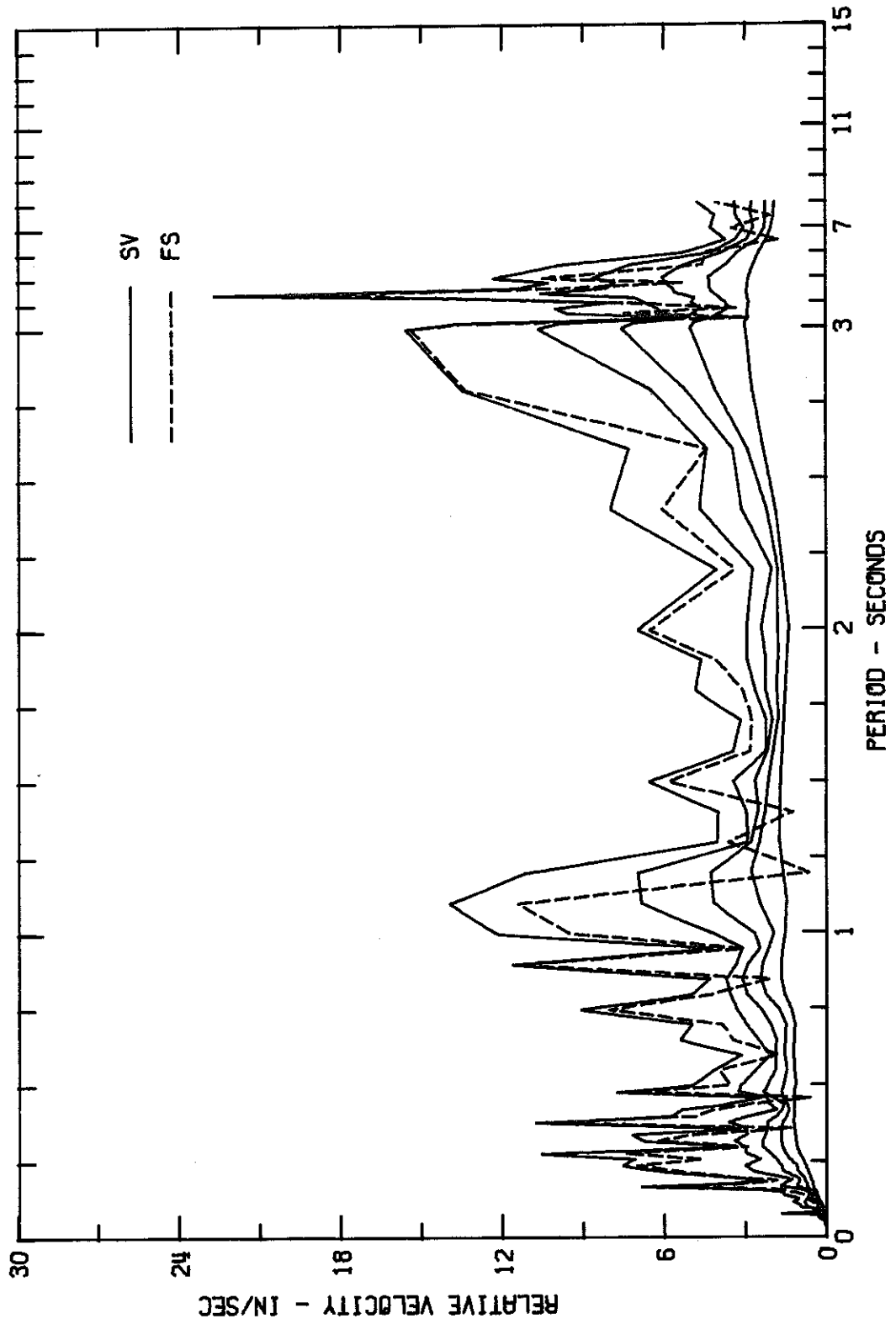
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

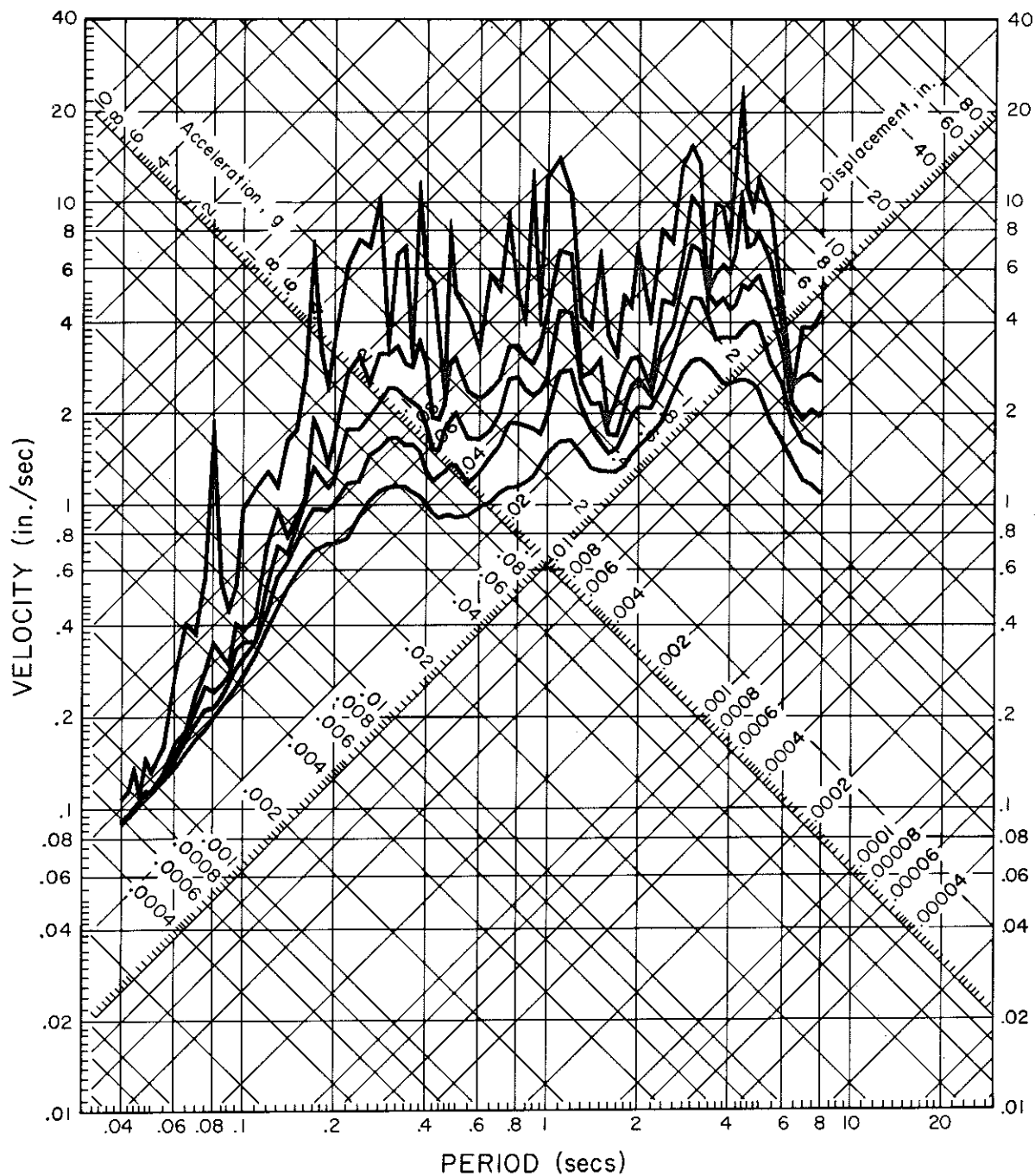


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111M182 71.125.0 4000 WEST CHAPMAN AVENUE, 19TH FLOOR, ORANGE, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

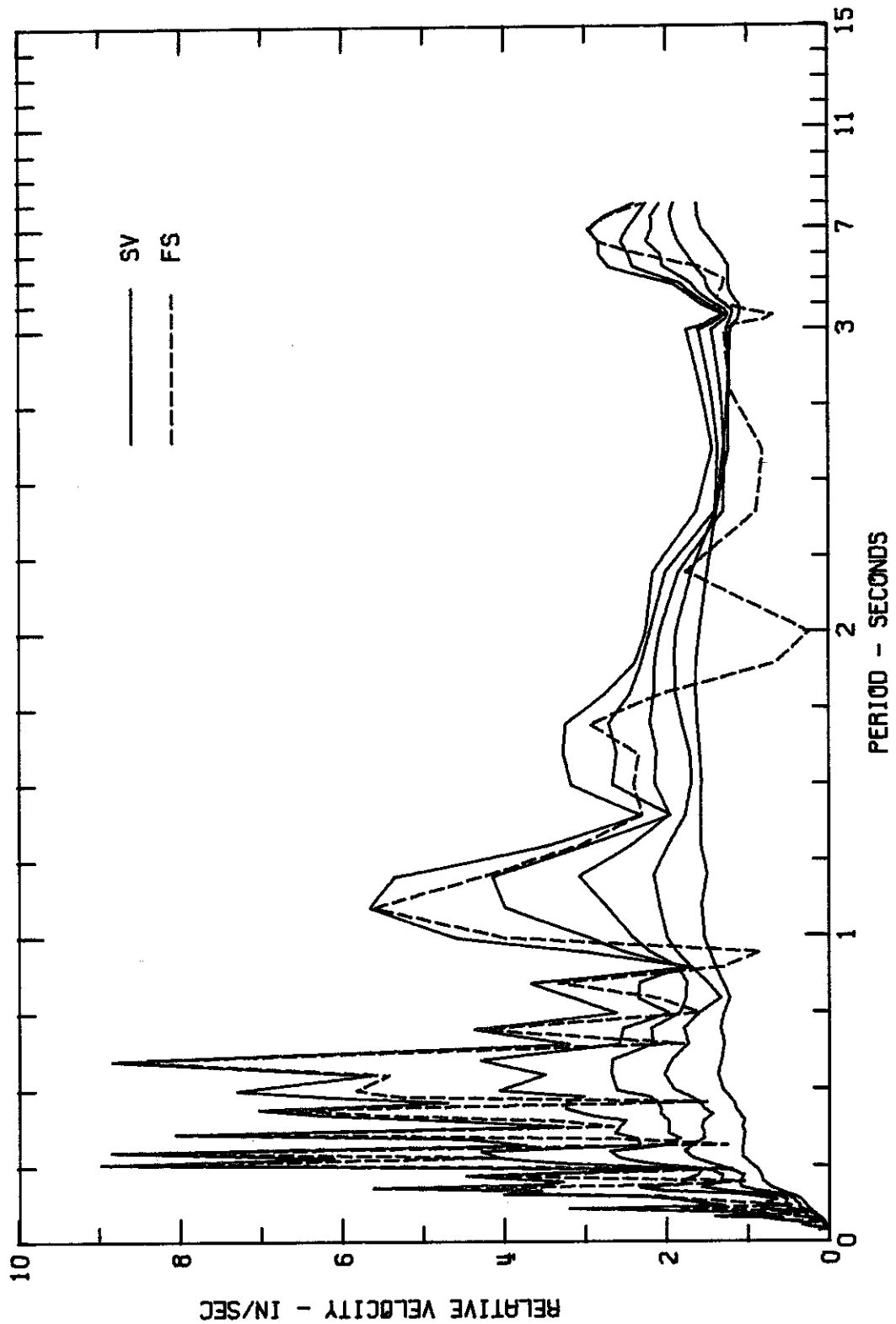
IIIM182 71.125.0 4000 WEST CHAPMAN AVENUE, 19TH FLOOR, ORANGE, CAL. COMP DOWN

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	324-4	687-6	382-4	439-4	108-3	585-6	206-4	374-4	919-4	580-6	201-4	370-4	911-4	576-6	201-4	368-4	905-4
0.042	132-4	765-6	404-4	443-4	114-3	640-6	212-4	371-4	957-4	641-6	220-4	372-4	959-4	637-6	222-4	370-4	953-4
0.044	310-4	947-6	574-4	500-4	135-3	713-6	249-4	377-4	101-3	708-6	246-4	374-4	101-3	701-6	247-4	371-4	100-3
0.046	168-4	807-6	441-4	390-4	110-3	786-6	277-4	380-4	107-3	778-6	276-4	376-4	106-3	770-6	274-4	372-4	105-3
0.048	437-4	111-5	679-4	495-4	146-3	878-6	338-4	389-4	114-3	853-6	313-4	378-4	111-3	840-6	303-4	373-4	110-3
0.050	600-4	105-5	633-4	430-4	132-3	913-6	327-4	373-4	114-3	917-6	338-4	375-4	115-3	908-6	332-4	373-4	114-3
0.055	579-4	141-5	890-4	477-4	161-3	115-5	459-4	391-4	132-3	113-5	427-4	383-4	129-3	111-5	408-4	377-4	127-3
0.060	162-3	266-5	195-3	758-4	279-3	158-5	860-4	453-4	166-3	147-5	658-4	419-4	154-3	140-5	501-4	401-4	146-3
0.065	272-3	424-5	319-3	102-3	409-3	188-5	920-4	456-4	181-3	184-5	720-4	444-4	178-3	175-5	616-4	426-4	165-3
0.070	859-4	421-5	276-3	880-4	378-3	268-5	123-3	561-4	241-3	237-5	955-4	499-4	213-3	214-5	842-4	451-4	192-3
0.075	182-3	693-5	462-3	126-3	580-3	339-5	197-3	614-4	284-3	303-5	138-3	553-4	253-3	254-5	108-3	467-4	213-3
0.080	150-2	219-4	168-2	350-3	172-2	448-5	280-3	719-4	352-3	310-5	160-3	494-4	244-3	275-5	127-3	454-4	216-3
0.085	350-3	752-5	488-3	106-3	556-3	434-5	224-3	614-4	321-3	350-5	165-3	497-4	258-3	318-5	141-3	454-4	235-3
0.090	475-4	650-5	336-3	821-4	454-3	427-5	209-3	542-4	298-3	398-5	175-3	504-4	278-3	376-5	151-3	474-4	262-3
0.095	387-3	826-5	401-3	936-4	546-3	617-5	251-3	702-4	408-3	509-5	181-3	578-4	336-3	442-5	161-3	507-4	292-3
0.100	748-3	157-4	938-3	160-3	988-3	617-5	301-3	632-4	387-3	654-5	200-3	584-4	354-3	501-5	169-3	524-4	314-3
0.110	795-3	201-4	102-2	170-3	115-2	753-5	361-3	635-4	430-3	625-5	259-3	527-4	357-3	625-5	217-3	530-4	357-3
0.120	824-3	249-4	125-2	177-3	130-2	141-4	572-3	100-3	741-3	103-4	396-3	738-4	541-3	851-5	313-3	608-4	445-3
0.130	744-3	240-4	104-2	145-3	116-2	201-4	748-3	121-3	972-3	152-4	544-3	916-4	736-3	120-4	407-3	727-4	582-3
0.140	628-3	371-4	156-2	193-3	166-2	176-4	686-3	919-4	791-3	154-4	526-3	812-4	693-3	145-4	442-3	769-4	653-3
0.150	128-2	429-4	164-2	195-3	179-2	220-4	719-3	100-3	924-3	203-4	595-3	918-4	852-3	181-4	538-3	833-4	760-3
0.160	160-2	692-4	263-2	276-3	272-2	273-4	994-3	108-3	107-2	266-4	785-3	107-3	104-2	226-4	645-3	908-4	887-3
0.170	645-2	188-3	688-2	666-3	695-2	526-4	171-2	187-3	194-2	363-4	108-2	128-3	134-2	266-4	741-3	953-4	983-3
0.180	296-2	944-4	321-2	298-3	329-2	483-4	154-2	152-3	168-2	354-4	107-2	111-3	123-2	280-4	777-3	898-4	979-3
0.190	184-2	755-4	237-2	214-3	249-2	415-4	127-2	118-3	137-2	348-4	100-2	993-4	115-2	293-4	818-3	854-4	971-3
0.200	339-2	114-3	345-2	293-3	360-2	541-4	157-2	139-3	170-2	394-4	108-2	101-3	123-2	328-4	852-3	847-4	103-2
0.220	548-2	222-3	622-2	469-3	634-2	977-4	275-2	207-3	279-2	631-4	162-2	131-3	180-2	419-4	110-2	874-4	119-2
0.240	703-2	292-3	757-2	519-3	766-2	120-3	300-2	213-3	315-2	688-4	169-2	124-3	180-2	461-4	112-2	827-4	120-2
0.260	459-2	298-3	713-2	451-3	720-2	105-3	245-2	161-3	255-2	829-4	186-2	124-3	200-2	611-4	138-2	926-4	147-2
0.280	750-2	461-3	105-1	601-3	103-1	143-3	299-2	187-3	322-2	985-4	212-2	130-3	221-2	694-4	154-2	523-4	155-2
0.300	290-2	164-3	332-2	186-3	344-2	153-3	304-2	174-3	320-2	118-3	237-2	133-3	247-2	801-4	165-2	914-4	167-2
0.320	631-2	350-3	678-2	349-3	687-2	173-3	342-2	142-3	297-2	124-3	238-2	126-3	244-2	861-4	169-2	789-4	169-2
0.340	487-2	393-3	722-2	348-3	727-2	160-3	294-2	131-3	297-2	124-3	225-2	111-3	230-2	864-4	168-2	789-4	159-2
0.360	133-2	187-3	321-2	147-3	327-2	165-3	297-2	142-3	289-2	127-3	221-2	100-3	221-2	919-4	165-2	746-4	160-2
0.380	105-1	654-3	108-1	463-3	108-1	212-3	363-2	151-3	351-2	128-3	221-2	914-4	212-2	920-4	163-2	669-4	152-2
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0.420	420-2	367-3	535-2	213-3	549-2	131-3	184-2	765-4	197-2	103-3	166-2	604-4	154-2	809-4	138-2	480-4	121-2
0.440	280-2	256-3	363-2	135-3	366-2	135-3	212-2	716-4	194-2	107-3	158-2	566-4	153-2	886-4	148-2	476-4	126-2
0.460	576-3	173-3	242-2	841-4	237-2	159-3	224-2	774-4	217-2	132-3	202-2	649-4	180-2	952-4	163-2	476-4	130-2
0.480	715-2	611-3	781-2	271-3	800-2	226-3	327-2	100-3	297-2	147-3	235-2	659-4	193-2	104-3	168-2	476-4	136-2
0.500	357-2	404-3	495-2	165-3	507-2	246-3	320-2	101-3	309-2	162-3	220-2	664-4	204-2	108-3	161-2	463-4	136-2
0.550	397-2	372-3	414-2	125-3	425-2	210-3	263-2	710-4	240-2	147-3	191-2	502-4	168-2	104-3	147-2	358-4	118-2
0.600	179-2	314-3	317-2	893-4	329-2	215-3	212-2	615-4	226-2	159-3	189-2	457-4	167-2	124-3	158-2	362-4	130-2
0.650	348-2	602-3	543-2	145-3	582-2	250-3	254-2	605-4	242-2	184-3	187-2	451-4	178-2	150-3	153-2	373-4	145-2
0.700	388-2	578-3	499-2	120-3	518-2	296-3	297-2	619-4	265-2	228-3	209-2	479-4	204-2	178-3	152-2	383-4	160-2

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111M183 71.157.0 6074 PARK DRIVE, GROUND LEVEL, WRIGHTWOOD, CAL. COMP N65W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

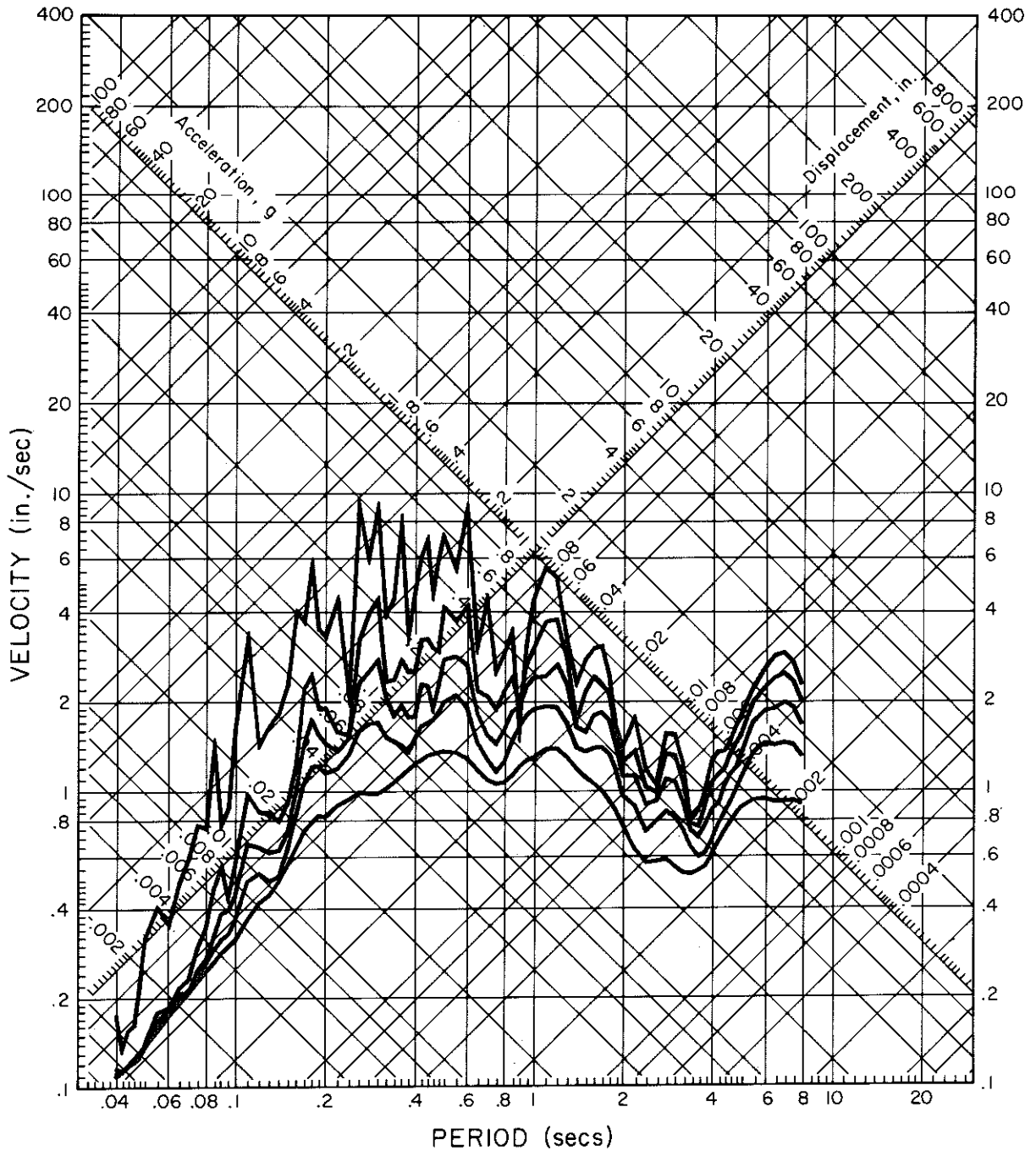


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIM183 71.157.0 6074 PARK DRIVE, GROUND LEVEL, WRIGHTWOOD, CAL. COMP N65W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIM183 71.157.0 6074 PARK DRIVE, GROUND LEVEL, WRIGHTWOOD, CAL. CCMP N65W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	124-3	111-5	127-3	713-4	175-3	740-6	265-4	473-4	116-3	710-6	235-4	454-4	111-3	698-6	244-4	446-4	105-3
0.042	321-4	902-6	643-4	523-4	134-3	757-6	306-4	438-4	113-3	765-6	325-4	440-4	114-3	767-6	274-4	445-4	114-3
0.044	712-4	110-5	829-4	581-4	157-3	840-6	326-4	443-4	120-3	833-6	382-4	440-4	118-3	838-6	307-4	443-4	115-3
0.046	789-4	115-5	104-3	578-4	163-3	892-6	400-4	431-4	121-3	903-6	367-4	436-4	123-3	916-6	344-4	442-4	125-3
0.048	115-3	167-5	170-3	743-4	219-3	972-6	444-4	431-4	127-3	983-6	413-4	436-4	128-3	100-5	378-4	446-4	131-3
0.050	233-3	255-5	253-3	104-3	320-3	113-5	555-4	463-4	142-3	110-5	458-4	450-4	138-3	110-5	410-4	452-4	139-3
0.055	288-3	358-5	349-3	121-3	405-3	157-5	722-4	531-4	179-3	146-5	560-4	495-4	166-3	141-5	477-4	479-4	161-3
0.060	242-3	338-5	286-3	962-4	354-3	178-5	873-4	507-4	186-3	178-5	633-4	508-4	186-3	173-5	590-4	496-4	181-3
0.065	139-3	510-5	399-3	123-3	493-3	225-5	115-3	547-4	218-3	216-5	954-4	523-4	208-3	207-5	741-4	503-4	200-3
0.070	588-3	669-5	580-3	139-3	601-3	260-5	178-3	546-4	233-3	234-5	117-3	496-4	210-3	239-5	959-4	499-4	214-3
0.075	726-3	923-5	746-3	167-3	773-3	359-5	212-3	654-4	300-3	300-5	147-3	545-4	251-3	285-5	117-3	520-4	239-3
0.080	585-3	962-5	705-3	153-3	755-3	447-5	299-3	715-4	351-3	347-5	210-3	553-4	273-3	341-5	145-3	545-4	267-3
0.085	136-2	192-4	141-2	272-3	142-2	642-5	448-3	907-4	475-3	440-5	294-3	623-4	325-3	399-5	181-3	572-4	295-3
0.090	484-3	111-4	716-3	140-3	777-3	806-5	439-3	102-3	562-3	559-5	299-3	712-4	390-3	456-5	201-3	576-4	319-3
0.095	619-3	134-4	876-3	152-3	888-3	662-5	348-3	753-4	438-3	605-5	273-3	739-4	400-3	502-5	233-3	575-4	362-3
0.100	435-3	259-4	155-2	265-3	162-2	908-5	490-3	932-4	570-3	714-5	339-3	734-4	448-3	588-5	271-3	616-4	369-3
0.110	183-2	578-4	321-2	489-3	330-2	172-4	855-3	144-3	582-3	117-4	525-3	991-4	671-3	880-5	370-3	753-4	502-3
0.120	514-3	274-4	128-2	194-3	143-2	163-4	723-3	115-3	856-3	124-4	489-3	901-4	651-3	101-4	368-5	733-4	533-3
0.130	107-2	347-4	163-2	210-3	168-2	175-4	779-3	105-3	846-3	129-4	548-3	780-4	627-3	104-4	404-3	635-4	503-3
0.140	169-2	414-4	185-2	216-3	185-2	178-4	641-3	931-4	798-3	142-4	528-3	739-4	638-3	116-4	441-3	609-4	521-3
0.150	205-2	552-4	226-2	251-3	231-2	219-4	906-3	100-3	919-3	175-4	628-3	804-4	734-3	154-4	502-3	708-4	645-3
0.160	377-2	103-3	402-2	415-3	378-2	313-4	113-2	125-3	123-2	257-4	880-3	103-3	101-2	213-4	665-3	874-4	837-3
0.170	354-2	101-3	356-2	358-3	374-2	609-4	207-2	215-3	225-2	395-4	132-2	140-3	146-2	291-4	915-3	104-3	107-2
0.180	422-2	166-3	563-2	525-3	580-2	713-4	233-2	226-3	249-2	502-4	157-2	159-3	175-2	349-4	108-2	112-3	122-2
0.190	158-2	106-3	346-2	302-3	353-2	578-4	174-2	163-3	191-2	472-4	141-2	133-3	156-2	371-4	110-2	107-3	122-2
0.200	104-2	106-3	327-2	271-3	333-2	611-4	182-2	157-3	192-2	464-4	133-2	118-3	145-2	369-4	109-2	987-4	116-2
0.220	437-2	156-3	448-2	330-3	446-2	558-4	161-2	118-3	159-2	480-4	131-2	104-3	137-2	421-4	105-2	880-4	120-2
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0.300	877-2	430-3	886-2	488-3	901-2	213-3	429-2	242-3	448-2	133-3	270-2	154-3	279-2	821-4	178-2	959-4	172-2
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0.360	770-2	455-3	807-2	359-3	794-2	159-3	264-2	126-3	279-2	112-3	198-2	898-4	197-2	829-4	154-2	683-4	144-2
0.380	265-2	202-3	327-2	143-3	334-2	153-3	257-2	109-3	254-2	108-3	197-2	783-4	179-2	826-4	157-2	594-4	136-2
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0.480	525-2	463-3	616-2	205-3	606-2	226-3	302-2	100-3	297-2	174-3	223-2	777-4	228-2	143-3	173-2	650-4	187-2
0.500	583-2	579-3	731-2	237-3	728-2	334-3	407-2	137-3	420-2	223-3	262-2	918-4	281-2	161-3	191-2	669-4	202-2
0.550	542-2	492-3	564-2	166-3	562-2	330-3	349-2	112-3	377-2	252-3	268-2	858-4	287-2	186-3	203-2	644-4	213-2
0.600	879-2	851-3	885-2	241-3	891-2	406-3	430-2	115-3	425-2	255-3	267-2	733-4	267-2	183-3	193-2	532-4	191-2
0.650	179-2	317-3	319-2	769-4	307-2	226-3	258-2	549-4	418-2	188-3	219-2	459-4	182-2	151-3	173-2	375-4	146-2
0.700	434-2	496-3	438-2	103-3	445-2	234-3	253-2	488-4	210-2	173-3	217-2	363-4	155-2	143-3	179-2	306-4	129-2

DAMPING = 0 PER CENT

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DAMPING = 5 PER CENT

DAMPING = 10 PER CENT

DAMPING = 20 PER CENT

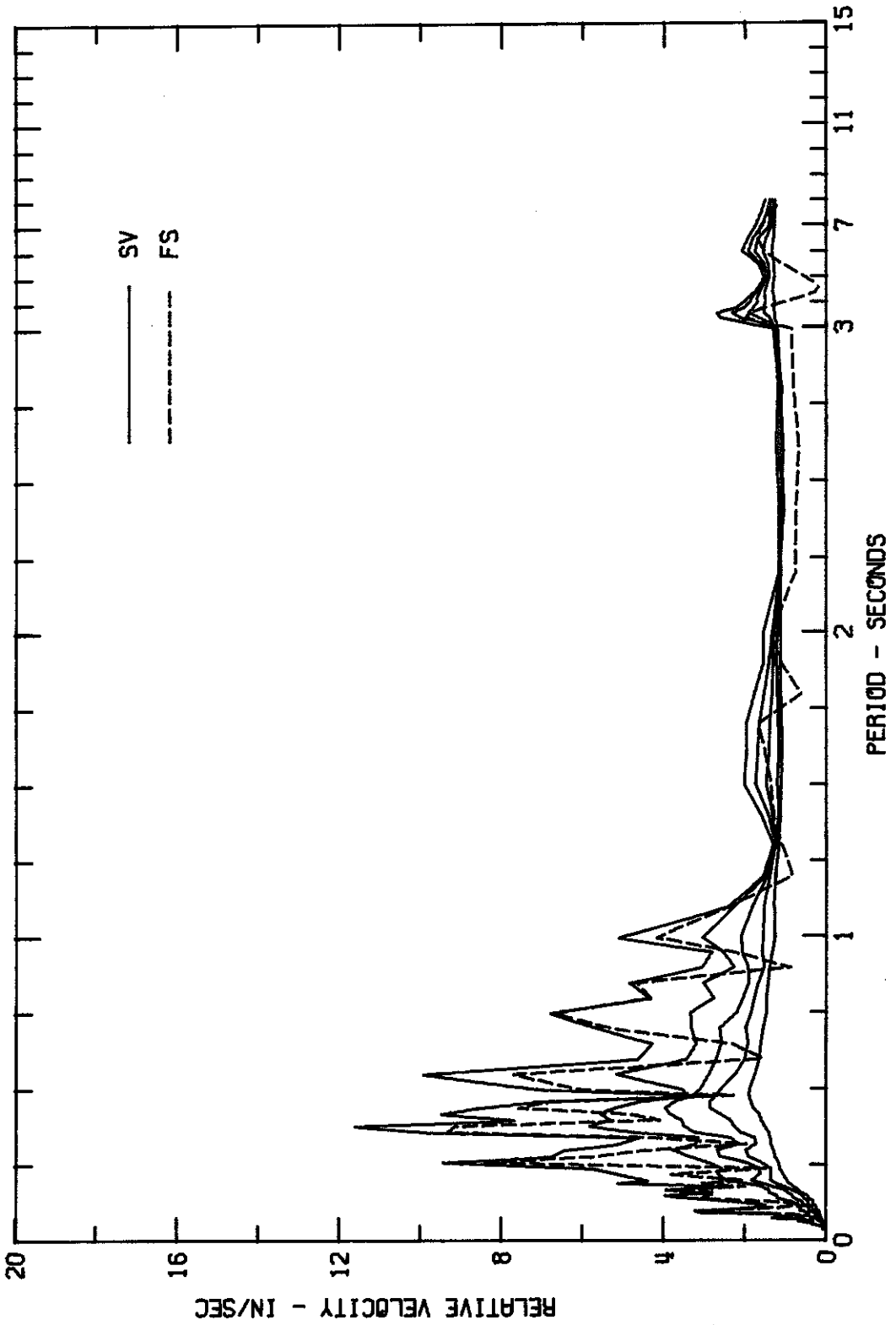
DAMPING = 20 PER CENT

IIIM183 71.157.0 6074 PARK DRIVE, GROUND LEVEL, WRIGHTWOOD, CAL. COMP N65W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT			DAMPING = 2 PER CENT			DAMPING = 5 PER CENT			DAMPING = 10 PER CENT			DAMPING = 20 PER CENT		
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD
0.75	159-2	302-3	261-2	549-4	253-2	225-3	197-2	411-4	189-2	173-3	183-3	319-4	145-2	140-3
0.80	212-2	374-3	313-2	598-4	294-2	280-3	235-2	447-4	220-2	207-3	176-2	333-4	163-2	162-3
0.85	333-2	470-3	368-2	665-4	347-2	330-3	233-2	468-4	244-2	253-3	175-2	361-4	187-2	202-3
0.90	131-2	231-3	171-2	292-4	161-2	279-3	180-2	352-4	194-2	278-3	186-2	353-4	194-2	240-3
0.95	831-3	469-3	299-2	532-4	310-2	407-3	252-2	461-4	269-2	344-3	221-2	392-4	228-2	277-3
1.00	401-2	703-3	460-2	719-4	442-2	485-3	296-2	496-4	304-2	387-3	242-2	398-4	243-2	304-3
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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111M183 71.157.0 6074 PARK DRIVE, GROUND LEVEL, WRIGHTWOOD, CAL. COMP N25E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

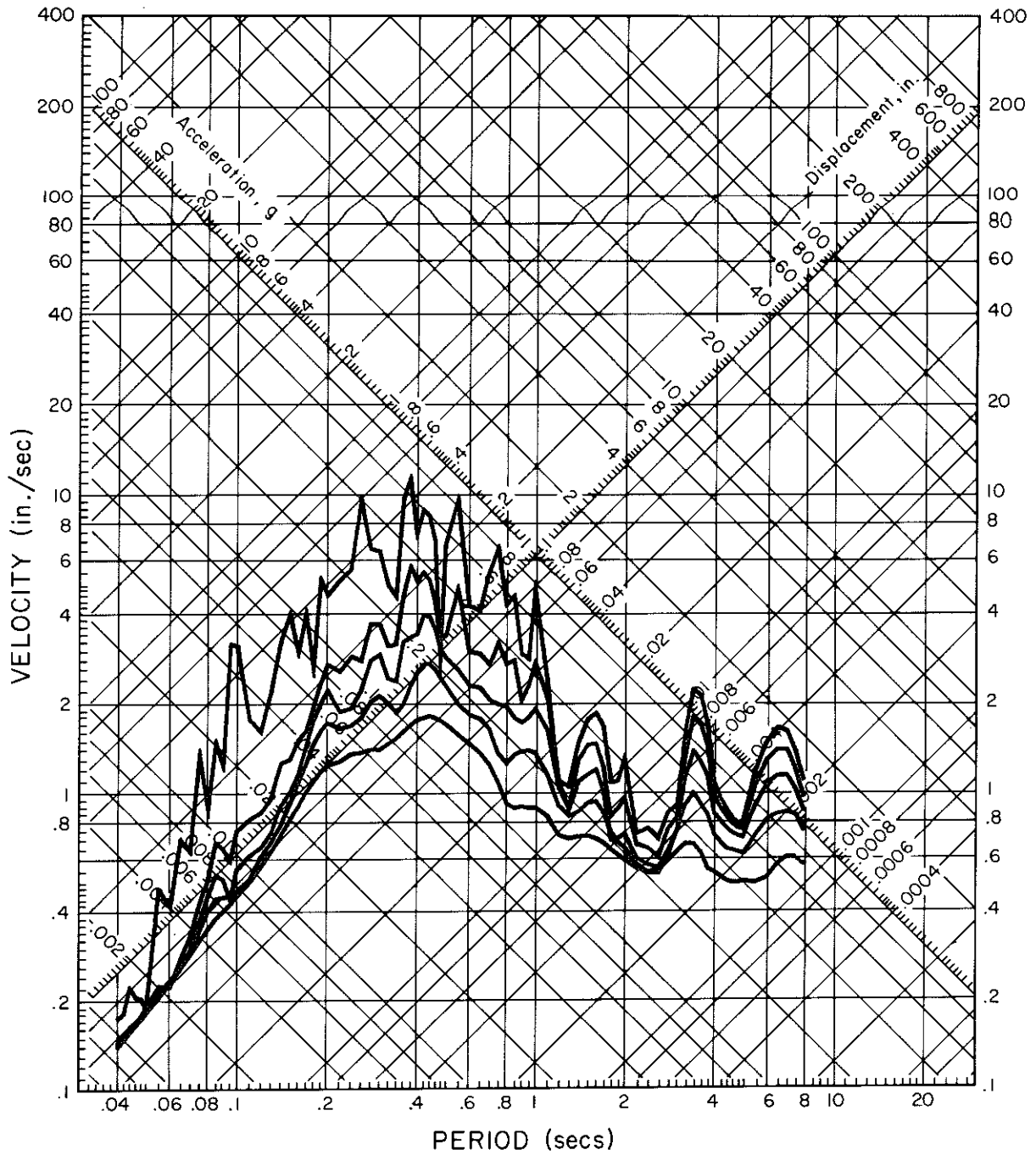


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111M183 71.157.0 6074 PARK DRIVE, GROUND LEVEL, WRIGHTWOOD, CAL. COMP N25E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

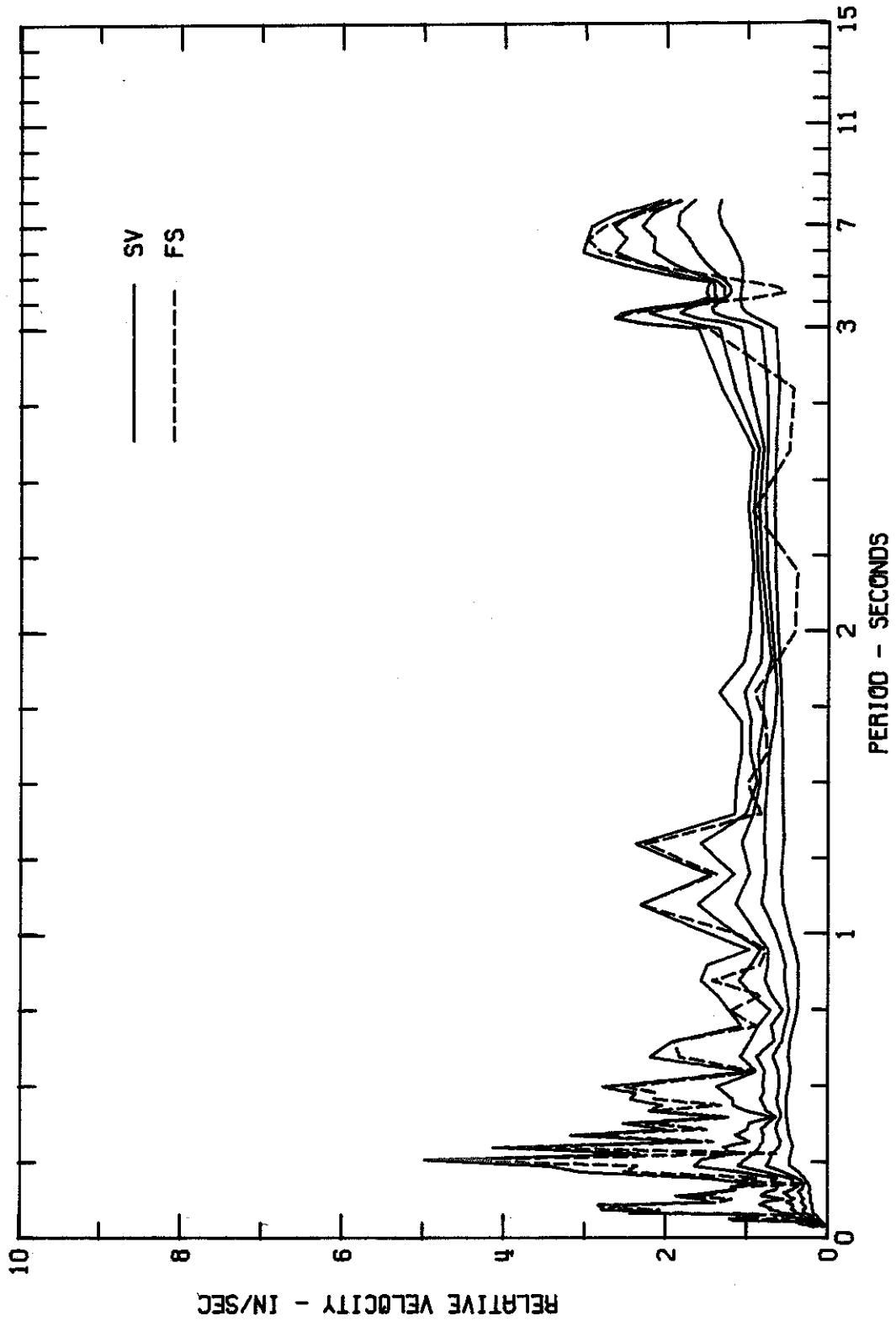


SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
 I1IIM183 71.157.0 6074 PARK DRIVE, GROUND LEVEL, WRIGHTWOOD, CAL. CCMP N25E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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0.042	975-4	122-5	847-4	711-4	183-3	104-5	377-4	606-4	156-3	102-5	362-4	593-4	152-3	100-5	349-4	582-4	150-3	998-6	340-4	580-4	149-3	998-6	340-4	580-4	149-3
0.044	309-4	156-5	565-4	827-4	223-3	115-5	392-4	609-4	164-3	113-5	370-4	600-4	162-3	111-5	371-4	591-4	159-3	110-5	371-4	586-4	158-3	110-5	371-4	586-4	158-3
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0.060	306-3	399-5	351-3	113-3	418-3	215-5	108-3	611-4	225-3	227-5	814-4	647-4	238-3	228-5	700-4	646-4	238-3	223-5	720-4	639-4	233-3	223-5	720-4	639-4	233-3
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0.075	134-2	161-4	134-2	294-3	135-2	514-5	257-3	937-4	430-3	446-5	184-3	812-4	374-3	418-5	152-3	761-4	350-3	384-5	126-3	715-4	321-3	384-5	126-3	715-4	321-3
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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111M183 71.157.0 6074 PARK DRIVE, GROUND LEVEL, WRIGHTWOOD, CAL. COMP DOWN
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

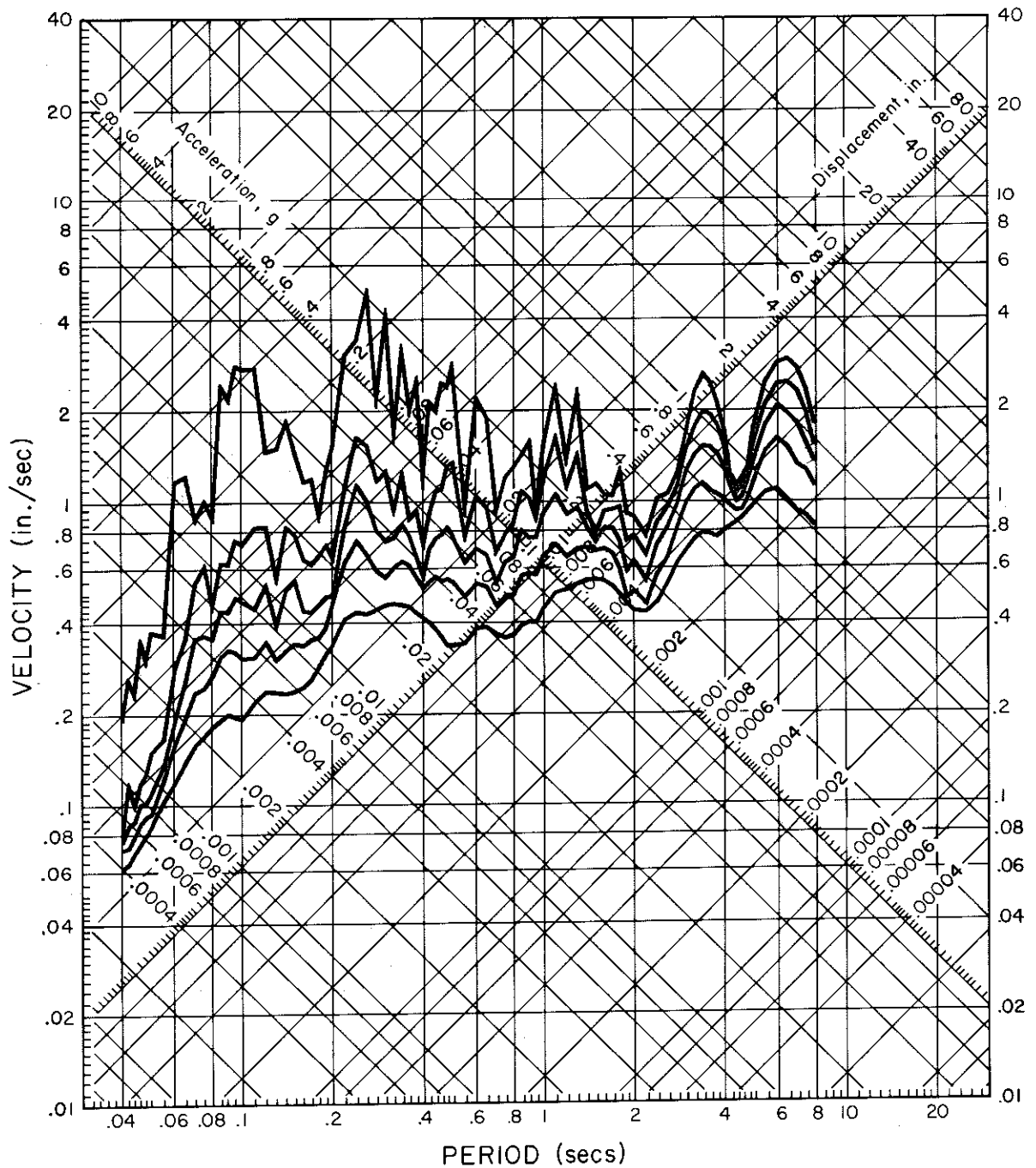


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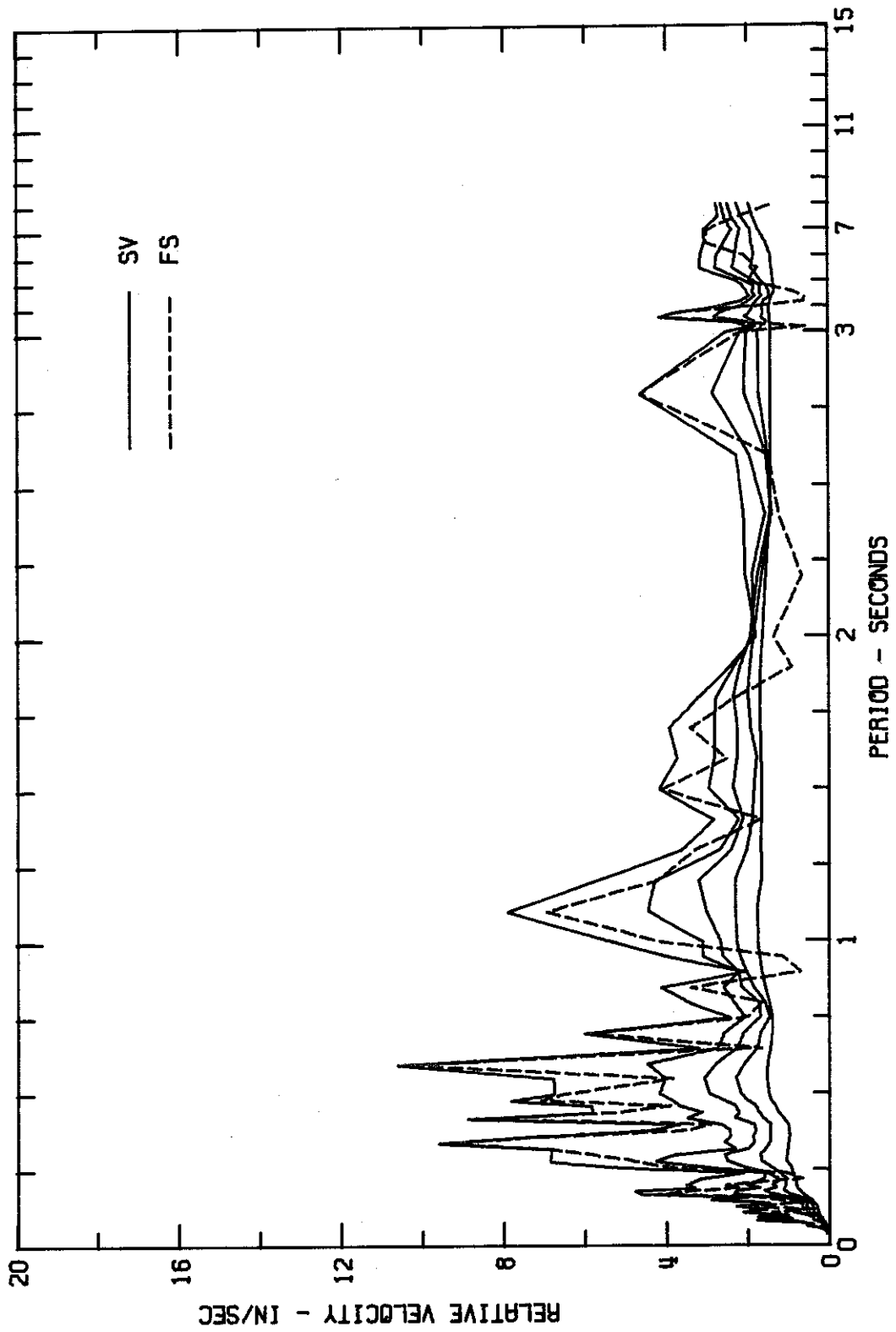
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIM183 71.157.0 6074 PARK DRIVE, GROUND LEVEL, WRIGHTWOOD, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
1111184 71.159.0 6074 PARK DRIVE, GROUND LEVEL, WRIGHTWOOD, CAL. COMP S65E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

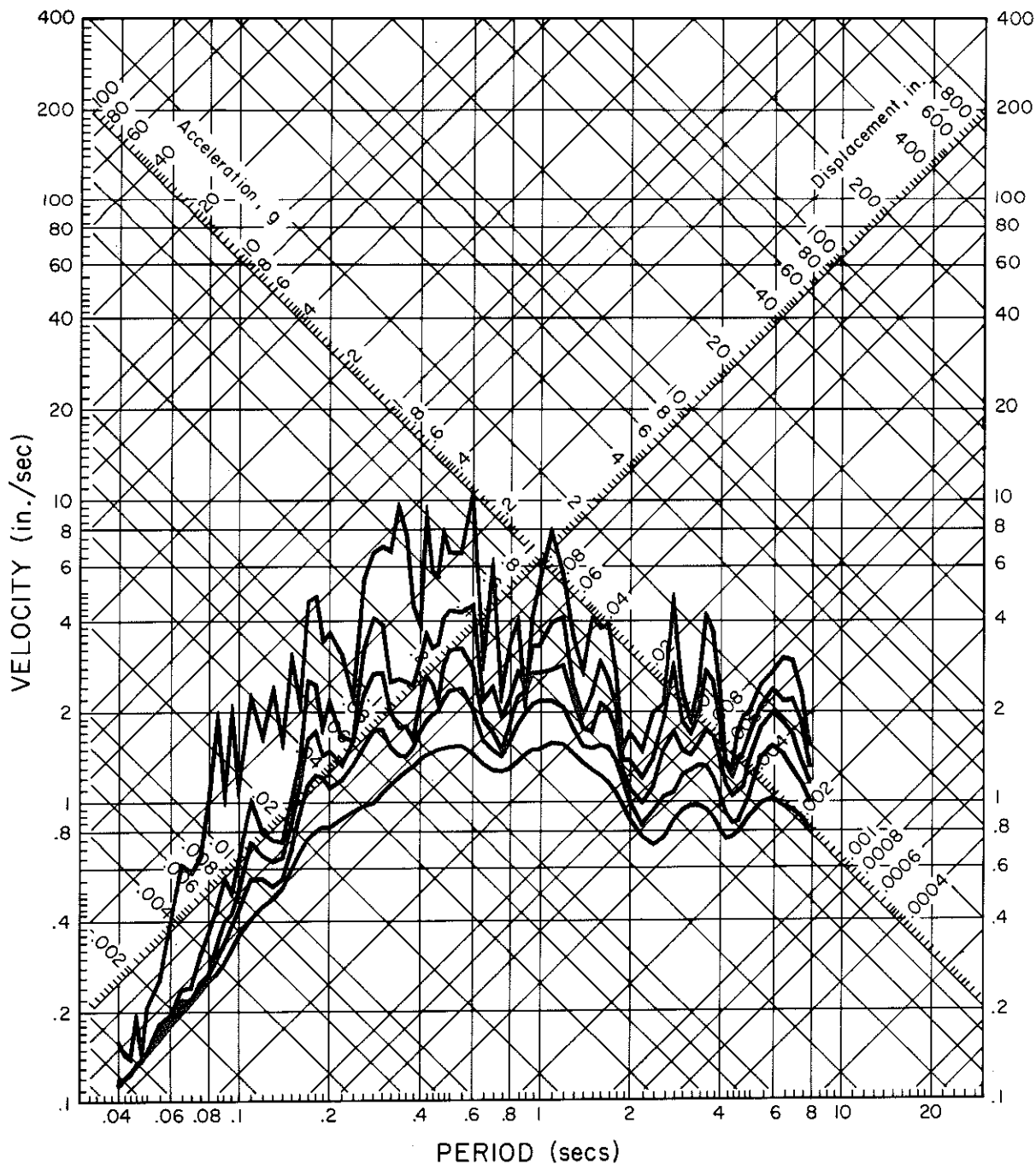


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIM184 71.159.0 6074 PARK DRIVE, GROUND LEVEL, WRIGHTWOOD, CAL. COMP S65E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IIM184 71.159.0 6074 PARK DRIVE, GROUND LEVEL, WRIGHTWOOD, CAL. CCMP S65E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

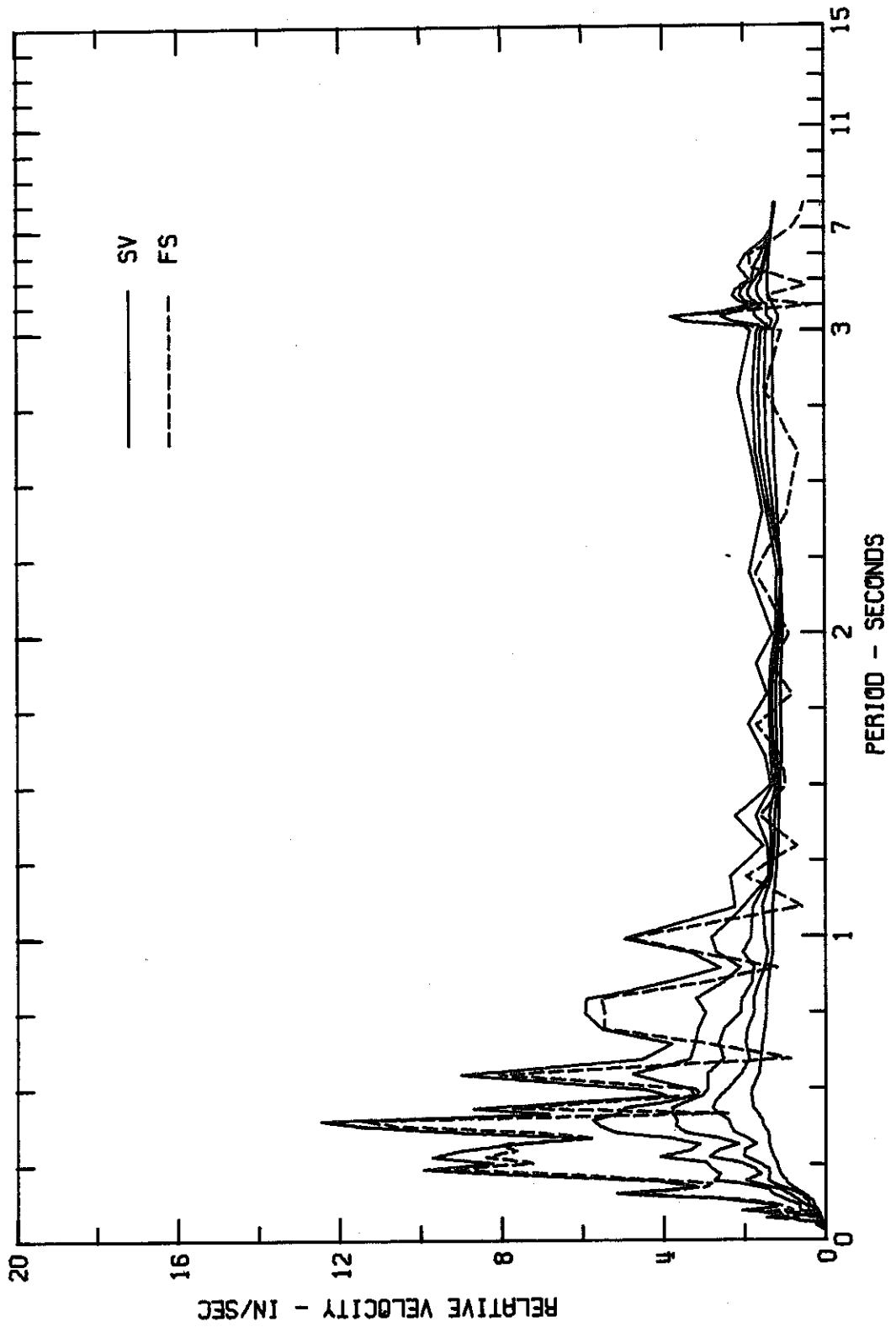
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0.060	213-3	395-5	326-3	112-3	413-3	189-5	788-4	539-4	198-3	183-5	709-4	536-4	197-3	181-5	678-4	521-4	190-3	173-5	657-4	500-4	182-3
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0.070	419-3	651-5	536-3	136-3	585-3	270-5	201-3	563-4	242-3	244-5	120-3	511-4	219-3	248-5	110-3	524-4	222-3	240-5	100-3	512-4	216-3
0.075	553-3	794-5	634-3	144-3	665-3	373-5	248-3	683-4	312-3	302-5	156-3	552-4	253-3	291-5	131-3	534-4	243-3	281-5	120-3	519-4	235-3
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0.085	125-2	257-4	181-2	363-3	190-2	603-5	402-3	850-4	446-3	452-5	274-3	640-4	334-3	409-5	195-3	581-4	303-3	368-5	169-3	532-4	272-3
0.090	924-3	151-4	939-3	190-3	105-2	800-5	409-3	852-4	497-3	745-5	291-3	729-4	402-3	490-5	238-3	626-4	342-3	420-5	197-3	548-4	293-3
0.095	157-2	300-4	179-2	340-3	198-2	752-5	431-3	852-4	497-3	645-5	311-3	729-4	426-3	589-5	272-3	674-4	389-3	491-5	222-3	576-4	325-3
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0.110	142-2	392-4	214-2	331-3	224-2	177-4	901-3	149-3	101-2	128-4	569-3	109-3	735-3	976-5	411-3	839-4	557-3	719-5	295-3	640-4	411-3
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0.140	687-3	352-4	148-2	184-3	158-2	164-4	666-3	857-4	738-3	146-4	552-3	760-4	658-3	124-4	479-3	648-4	558-3	116-4	382-3	644-4	521-3
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0.170	424-2	127-3	466-2	450-3	470-2	692-4	237-2	245-3	255-2	444-4	144-2	156-3	164-2	311-4	100-2	112-3	115-2	205-4	676-3	774-4	760-3
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0.240	105-2	844-4	211-2	149-3	221-2	617-4	158-2	109-3	161-2	613-4	155-2	110-3	160-2	514-4	122-2	948-4	134-2	358-4	507-3	689-4	938-3
0.260	401-2	229-3	547-2	346-3	553-2	135-3	321-2	204-3	326-2	955-4	217-2	146-3	230-2	638-4	147-2	100-3	154-2	405-4	978-3	647-4	980-3
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0.360	724-2	443-3	761-2	350-3	774-2	144-3	244-2	114-3	252-2	103-3	188-2	821-4	180-2	824-4	146-2	657-4	143-2	733-4	984-3	612-4	127-2
0.380	346-2	269-3	441-2	191-3	446-2	148-3	245-2	105-3	245-2	977-4	180-2	701-4	161-2	927-4	147-2	666-4	153-2	803-4	100-2	606-4	132-2
0.400	291-2	246-3	366-2	157-3	387-2	188-3	268-2	120-3	295-2	138-3	186-2	885-4	218-2	110-3	144-2	727-4	174-2	891-4	103-2	604-4	140-2
0.420	879-2	598-3	892-2	347-3	895-2	244-3	351-2	142-3	366-2	176-3	232-2	102-3	263-2	126-3	164-2	741-4	188-2	971-4	114-2	602-4	145-2
0.440	519-2	410-3	580-2	216-3	586-2	229-3	313-2	121-3	327-2	174-3	223-2	924-4	248-2	138-3	175-2	745-4	198-2	103-3	126-2	590-4	147-2
0.460	391-2	415-3	587-2	200-3	567-2	247-3	371-2	120-3	338-2	157-3	232-2	765-4	215-2	149-3	183-2	739-4	204-2	110-3	135-2	571-4	151-2
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0.500	656-2	540-3	677-2	221-3	678-2	347-3	418-2	142-3	436-2	256-3	297-2	104-3	322-2	188-3	219-2	784-4	236-2	122-3	150-2	539-4	154-2
0.550	382-2	593-3	678-2	200-3	678-2	376-3	404-2	127-3	430-2	285-3	309-2	975-4	326-2	210-3	231-2	725-4	240-2	136-3	155-2	495-4	155-2
0.600	104-1	100-2	106-1	286-3	105-1	434-3	448-2	123-3	455-2	267-3	278-2	767-4	280-2	196-3	209-2	569-4	205-2	139-3	152-2	429-4	146-2
0.650	165-2	309-3	319-2	750-4	299-2	227-3	274-2	550-4	219-2	193-3	226-2	470-4	187-2	166-3	176-2	412-4	161-2	139-3	145-2	367-4	134-2
0.700	596-2	674-3	605-2	140-3	605-2	271-3	258-2	568-4	243-2	190-3	210-2	398-4	170-2	166-3	169-2	354-4	149-2	143-3	140-2	325-4	128-2

111M184 71.159.0 6074 PARK DRIVE, GROUND LEVEL, WRIGHTWOOD, CAL. CCMP S65E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT																	
0.75	202-2	272-3	244-2	496-4	228-2	230-3	207-2	419-4	193-2	178-3	170-2	326-4	149-2	170-3	147-2	316-4	142-2
0.80	167-2	433-3	344-2	692-4	340-2	287-3	234-2	460-4	225-2	235-3	172-2	377-4	184-2	206-3	158-2	336-4	162-2
0.85	342-2	547-3	415-2	775-4	404-2	369-3	260-2	523-4	273-4	306-3	217-2	434-4	226-2	249-3	187-2	357-4	184-2
0.90	700-3	306-3	206-2	387-4	214-2	345-3	223-2	436-4	241-2	338-3	225-2	428-4	236-2	288-3	204-2	370-4	201-2
0.95	116-2	625-3	398-2	708-4	413-2	503-3	313-2	570-4	332-2	409-3	263-2	466-4	270-2	324-3	221-2	377-4	214-2
1.00	414-2	857-3	529-2	876-4	538-2	531-3	313-2	542-4	333-2	431-3	269-2	443-4	271-2	348-3	229-2	366-4	219-2
1.10	696-2	139-2	792-2	117-3	795-2	700-3	446-2	593-4	400-2	486-3	304-2	413-4	278-2	383-3	233-2	330-4	219-2
1.20	425-2	109-2	577-2	778-4	574-2	793-3	429-2	563-4	415-2	549-3	323-2	392-4	287-2	400-3	232-2	291-4	209-2
1.30	331-2	736-3	362-2	445-4	356-2	507-3	269-2	306-4	245-2	456-3	241-2	278-4	220-2	365-3	202-2	226-4	176-2
1.40	168-2	606-3	285-2	316-4	272-2	435-3	223-2	227-4	195-2	394-3	213-2	208-4	177-2	345-3	188-2	184-4	155-2
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1.60	252-2	969-3	375-2	387-4	380-2	752-3	282-2	300-4	295-2	547-3	227-2	220-4	215-2	398-3	179-2	162-4	156-2
1.70	342-2	105-2	395-2	374-4	391-2	697-3	283-2	246-4	257-2	549-3	227-2	195-4	203-2	414-3	195-2	149-4	153-2
1.80	230-2	777-3	322-2	245-4	271-2	604-3	278-2	191-4	211-2	499-3	237-2	159-4	174-2	395-3	200-2	127-4	138-2
1.90	929-3	456-3	245-2	129-4	150-2	417-3	235-2	118-4	138-2	384-3	218-2	110-4	127-2	355-3	195-2	104-4	117-2
2.00	136-2	547-3	180-2	140-4	172-2	441-3	187-2	112-4	138-2	355-3	192-2	915-5	111-2	322-3	184-2	863-5	101-2
2.20	674-3	520-3	206-2	110-4	148-2	424-3	188-2	899-5	121-2	350-3	174-2	752-5	999-3	295-3	165-2	658-5	843-3
2.40	123-2	767-3	211-2	136-4	200-2	541-3	156-2	961-5	141-2	434-3	142-2	775-5	113-2	362-3	141-2	658-5	949-3
2.60	149-2	990-3	229-2	134-4	215-2	788-3	196-2	119-4	190-2	625-3	154-2	950-5	151-2	436-3	150-2	680-5	105-2
2.80	465-2	207-2	464-2	270-4	464-2	126-2	286-2	165-4	283-2	771-3	209-2	101-4	173-2	485-3	173-2	651-5	108-2
3.00	216-2	112-2	253-2	127-4	234-2	888-3	217-2	100-4	186-2	713-3	200-2	817-5	149-2	594-3	175-2	693-5	124-2
3.20	518-3	953-3	196-2	952-5	187-2	866-3	183-2	866-5	170-2	737-3	180-2	743-5	144-2	658-3	164-2	684-5	129-2
3.40	230-2	132-2	239-2	117-4	245-2	107-2	202-2	952-5	198-2	859-3	182-2	771-5	158-2	724-3	152-2	675-5	133-2
3.60	407-2	240-2	418-2	189-4	419-2	157-2	283-2	124-4	275-2	100-2	207-2	798-5	175-2	762-3	164-2	638-5	133-2
3.80	365-2	223-2	370-2	158-4	370-2	152-2	264-2	108-4	252-2	100-2	193-2	717-5	166-2	734-3	160-2	552-5	121-2
4.00	193-2	149-2	272-2	957-5	235-2	118-2	217-2	760-5	186-2	890-3	186-2	571-5	139-2	676-3	164-2	444-5	106-2
4.20	619-3	915-3	215-2	530-5	136-2	886-3	197-2	514-5	132-2	768-3	177-2	448-5	115-2	615-3	158-2	370-5	520-3
4.40	594-3	909-3	195-2	480-5	129-2	859-3	181-2	454-5	122-2	738-3	164-2	393-5	105-2	599-3	144-2	330-5	855-3
4.60	860-3	127-2	200-2	614-5	173-2	100-2	186-2	486-5	137-2	807-3	168-2	394-5	110-2	636-3	147-2	329-5	869-3
4.80	146-2	149-2	210-2	661-5	195-2	113-2	183-2	504-5	148-2	867-3	166-2	392-5	113-2	737-3	152-2	351-5	964-3
5.00	198-2	159-2	227-2	651-5	200-2	133-2	208-2	546-5	167-2	110-2	187-2	459-5	138-2	842-3	167-2	370-5	105-2
5.50	175-2	217-2	316-2	735-5	248-2	185-2	279-2	627-5	211-2	157-2	237-2	536-5	179-2	125-2	191-2	439-5	142-2
6.00	207-2	260-2	315-2	739-5	272-2	229-2	275-2	651-5	239-2	192-2	229-2	550-5	201-2	148-2	183-2	433-5	155-2
6.50	304-2	314-2	305-2	762-5	304-2	227-2	257-2	550-5	219-2	192-2	225-2	471-5	186-2	150-2	191-2	382-5	145-2
7.00	298-2	331-2	306-2	692-5	297-2	247-2	239-2	517-5	222-2	189-2	216-2	399-5	170-2	143-2	193-2	337-5	129-2
7.50	223-2	279-2	270-2	509-5	234-2	222-2	256-2	405-5	186-2	164-2	238-2	302-5	137-2	139-2	215-2	282-5	116-2
8.00	137-2	197-2	276-2	315-5	154-2	167-2	264-2	269-5	131-2	148-2	248-2	239-5	116-2	129-2	226-2	227-5	101-2

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111M184 71.159.0 6074 PARK DRIVE, GROUND LEVEL, WRIGHTWOOD, CAL. COMP S25W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

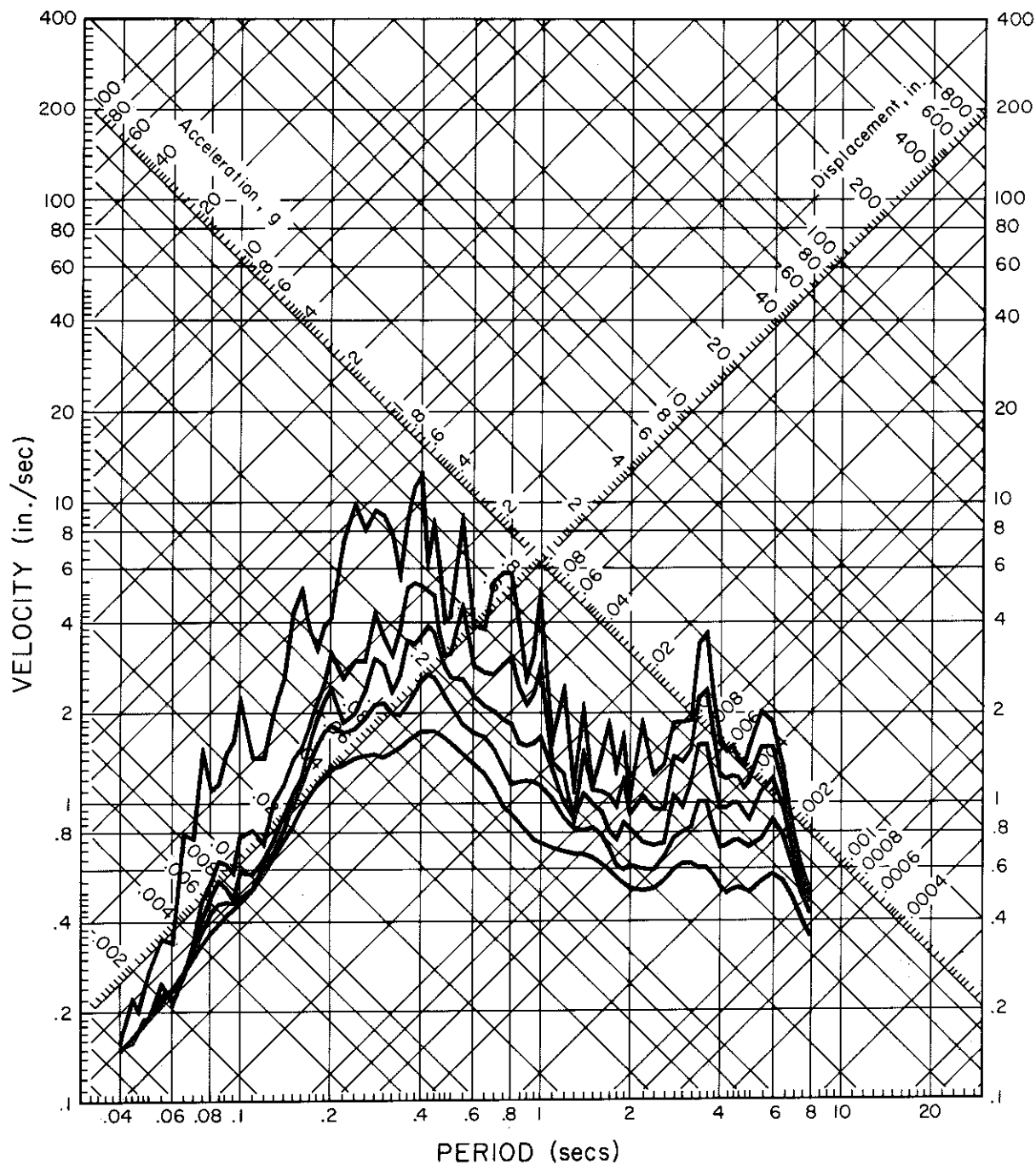


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIM184 71.159.0 6074 PARK DRIVE, GROUND LEVEL, WRIGHTWOOD, CAL. COMP S25W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

11M184 71.159.0 6074 PARK DRIVE, GROUND LEVEL, WRIGHTWOOD, CAL. CCMP S25W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	531-4	100-5	973-4	640-4	157-3	947-6	319-4	605-4	148-3	943-6	301-4	602-4	148-3	944-6	312-4	603-4	148-3
0.042	337-4	125-5	858-4	726-4	187-3	101-5	340-4	605-4	156-3	104-5	345-4	602-4	156-3	104-5	347-4	605-4	148-3
0.044	862-4	155-5	147-3	119-4	221-3	114-5	437-4	587-4	158-3	114-5	400-4	603-4	162-3	115-5	389-4	608-4	156-3
0.046	601-4	147-5	107-3	713-4	201-3	126-5	442-4	610-4	172-3	126-5	437-4	613-4	173-3	127-5	429-4	615-4	173-3
0.048	916-4	179-5	129-3	798-4	235-3	145-5	483-4	646-4	190-3	140-5	460-4	626-4	184-3	139-5	468-4	622-4	183-3
0.050	185-3	218-5	227-3	894-4	274-3	152-5	553-4	621-4	191-3	152-5	506-4	624-4	191-3	152-5	515-4	628-4	192-3
0.055	232-3	308-5	251-3	104-3	352-3	218-5	589-4	738-4	249-3	200-5	744-4	676-4	229-3	192-5	651-4	655-4	220-3
0.060	415-4	328-5	262-3	932-4	343-3	203-5	107-3	578-4	213-3	226-5	869-4	644-4	237-3	232-5	752-4	665-4	243-3
0.065	673-3	817-5	736-3	197-3	790-3	272-5	175-3	660-4	262-3	272-5	118-3	660-4	263-3	282-5	100-3	687-4	272-3
0.070	714-3	852-5	711-3	177-3	764-3	376-5	211-3	782-4	338-3	358-5	161-3	753-4	321-3	354-5	133-3	740-4	318-3
0.075	135-2	178-4	148-2	324-3	149-2	570-5	289-3	104-3	478-3	494-5	214-3	894-4	414-3	448-5	170-3	823-4	375-3
0.080	821-3	141-4	108-2	226-3	111-2	694-5	452-3	110-3	545-3	621-5	288-3	999-4	488-3	550-5	199-3	876-4	432-3
0.085	250-3	158-4	109-2	224-3	117-2	872-5	420-3	123-3	644-3	747-5	295-3	105-3	552-3	626-5	207-3	901-4	463-3
0.090	527-3	213-4	148-2	269-3	148-2	901-5	491-3	113-3	629-3	747-5	303-3	939-4	521-3	672-5	232-3	854-4	469-3
0.095	156-2	247-4	161-2	280-3	163-2	888-5	490-3	101-3	587-3	717-5	359-3	820-4	474-3	703-5	270-3	807-4	465-3
0.100	832-3	353-4	208-2	361-3	221-2	123-4	652-3	127-3	777-3	943-5	444-3	978-4	592-3	770-5	298-3	799-4	484-3
0.110	965-3	248-4	121-2	210-3	142-2	143-4	673-3	122-3	819-3	101-4	422-3	859-4	582-3	915-5	370-3	781-4	523-3
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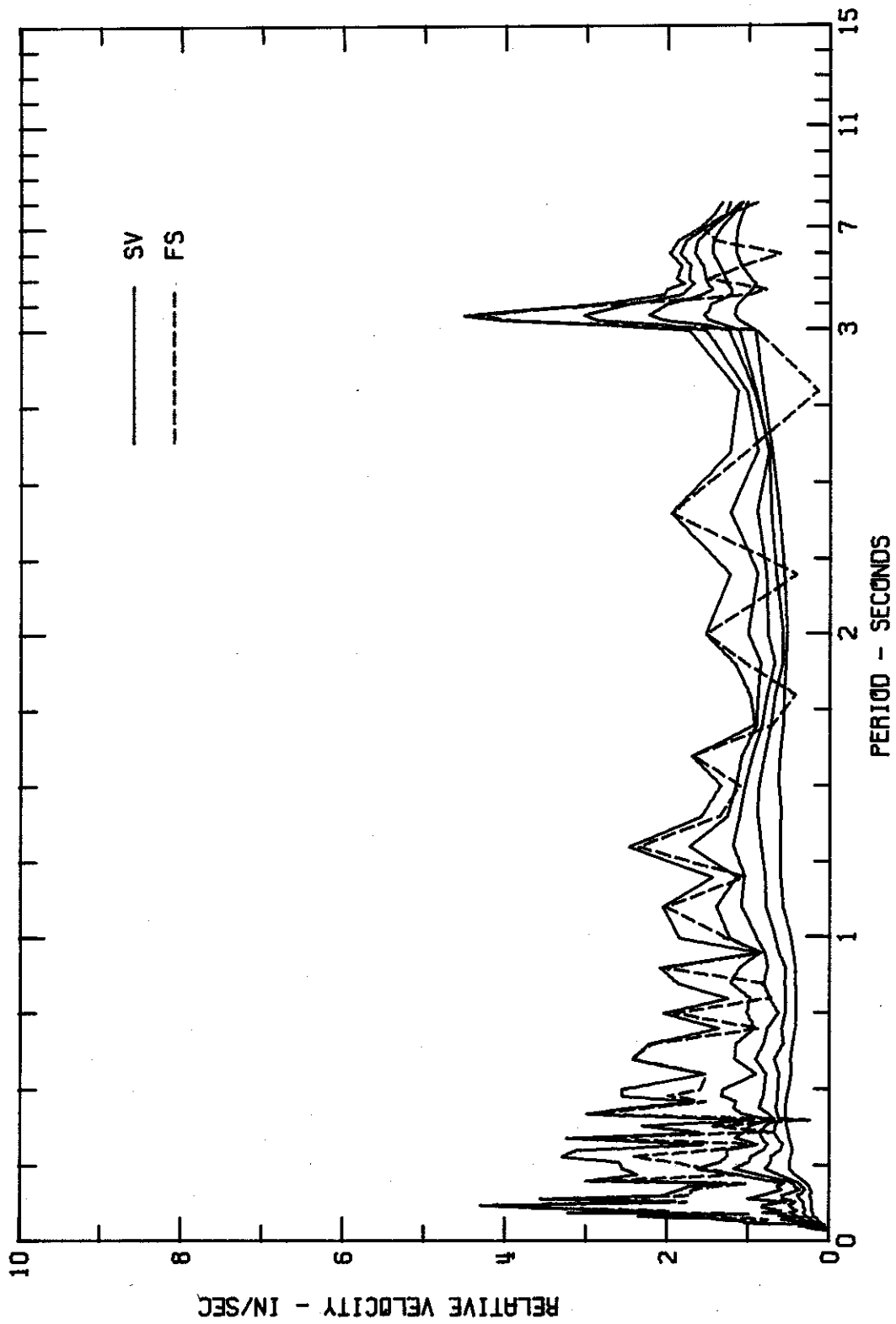
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IIIM184 71.159.0 6074 PARK DRIVE, GROUND LEVEL, WRIGHTWOOD, CAL. CCMP S25W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

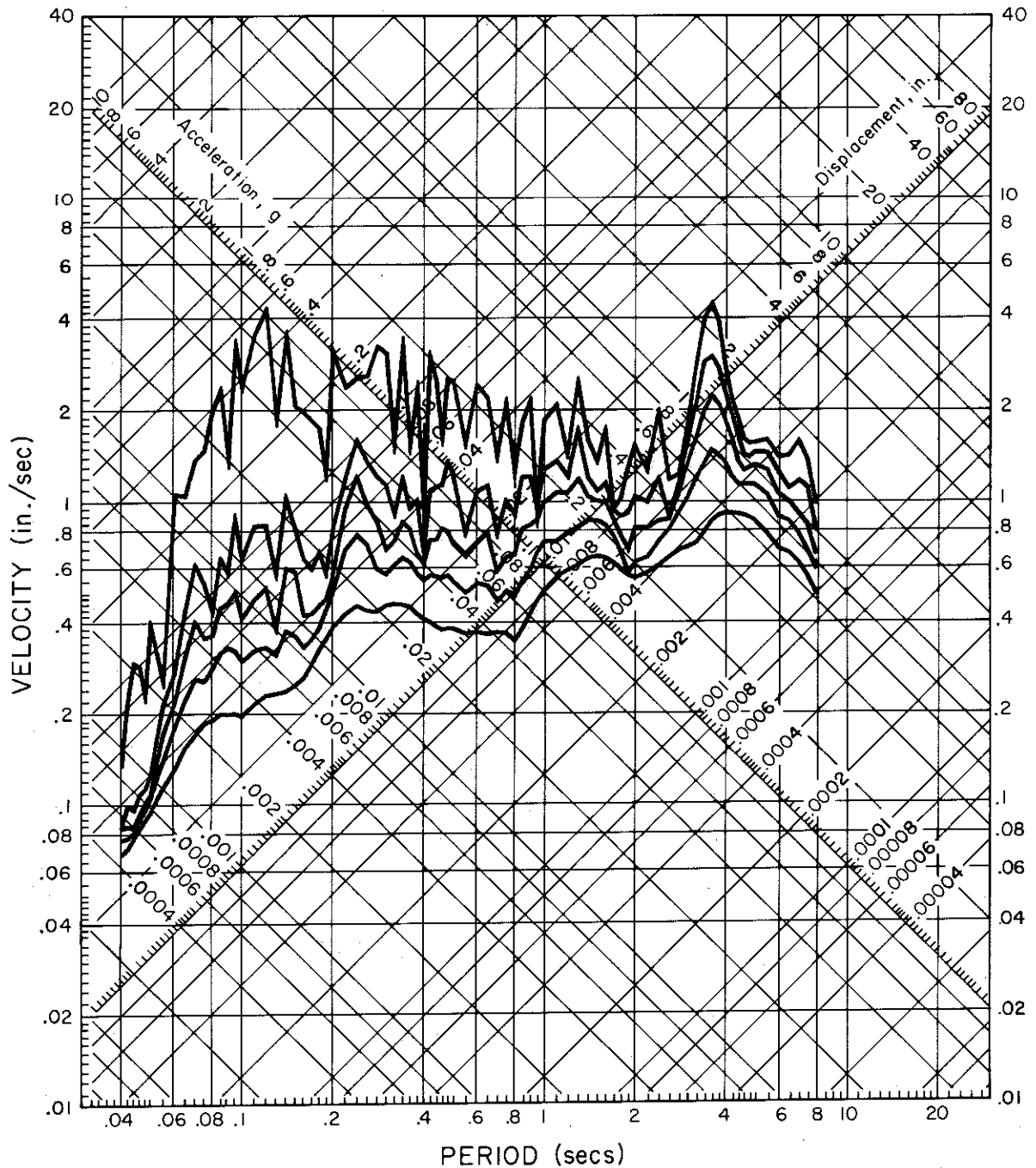


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111M184 71.159.0 6074 PARK DRIVE, GROUND LEVEL, WRIGHTWOOD, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIM184 71.159.0 6074 PARK DRIVE, GROUND LEVEL, WRIGHTWOOD, CAL. CCMP DOWN

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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0.042	139-3	145-5	198-3	844-4	218-3	661-6	850-4	383-4	989-4	564-6	646-4	330-4	843-4	515-6	525-4	301-4	771-4
0.044	208-3	206-5	272-3	108-3	294-3	671-6	888-4	354-4	958-4	584-6	649-4	307-4	835-4	563-6	562-4	304-4	805-4
0.046	274-3	209-5	281-3	101-3	285-3	791-6	806-4	383-4	108-3	679-6	673-4	331-4	928-4	645-6	584-4	317-4	881-4
0.048	311-4	175-5	193-3	780-4	230-3	866-6	843-4	382-4	113-3	776-6	699-4	343-4	101-3	733-6	592-4	329-4	960-4
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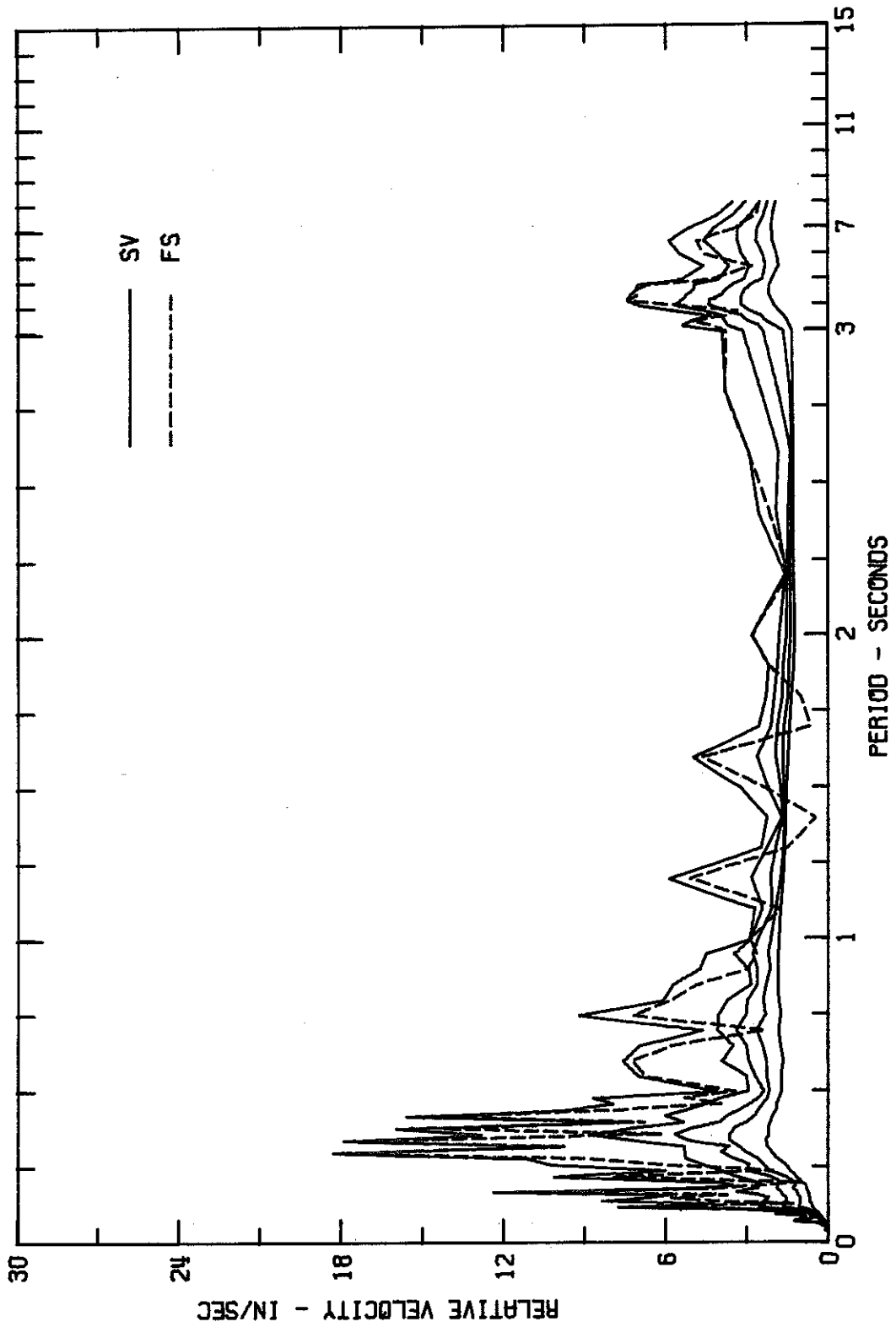
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IIIM184 71.159.0 6074 PARK DRIVE, GROUND LEVEL, WRIGHTWOOD, CAL. CCMP DOWN

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
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0.80	723-3	150-3	125-2	255-4	125-2	114-3	985-3	184-4	903-3	854-4	742-3	137-4	670-3	623-4	547-3	101-4	489-3
0.85	834-3	250-3	188-2	354-4	185-2	163-3	122-2	231-4	121-2	111-3	811-3	157-4	821-3	748-4	553-3	107-4	553-3
0.90	202-2	308-3	209-2	389-4	215-2	173-3	111-2	219-4	121-2	120-3	764-3	153-4	843-3	857-4	549-3	109-4	598-3
0.95	844-3	137-3	883-3	155-4	909-3	145-3	853-3	164-4	961-3	132-3	802-3	150-4	877-3	103-3	639-3	118-4	683-3
1.00	129-2	296-3	186-2	302-4	186-2	203-3	124-2	208-4	127-2	158-3	901-3	162-4	997-3	117-3	677-3	122-4	740-3
1.10	202-2	366-3	206-2	310-4	209-2	239-3	140-2	202-4	137-2	188-3	109-2	160-4	107-2	130-3	798-3	112-4	745-3
1.20	105-2	273-3	144-2	194-4	143-2	230-3	114-2	163-4	120-2	205-3	105-2	146-4	107-2	151-3	805-3	109-4	793-3
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1.40	136-2	354-3	158-2	185-4	159-2	267-3	126-2	139-4	120-2	232-3	111-2	121-4	104-2	194-3	891-3	103-4	872-3
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4.60	781-3	117-2	201-2	566-5	160-2	104-2	176-2	506-5	143-2	928-3	145-2	453-5	126-2	836-3	122-2	417-5	114-2
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6.50	141-2	146-2	187-2	355-5	142-2	114-2	177-2	277-5	110-2	103-2	163-2	255-5	100-2	895-3	144-2	230-5	865-3
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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111N185 71.066.0 CARBON CANYON DAM, CAL. COMP S50E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

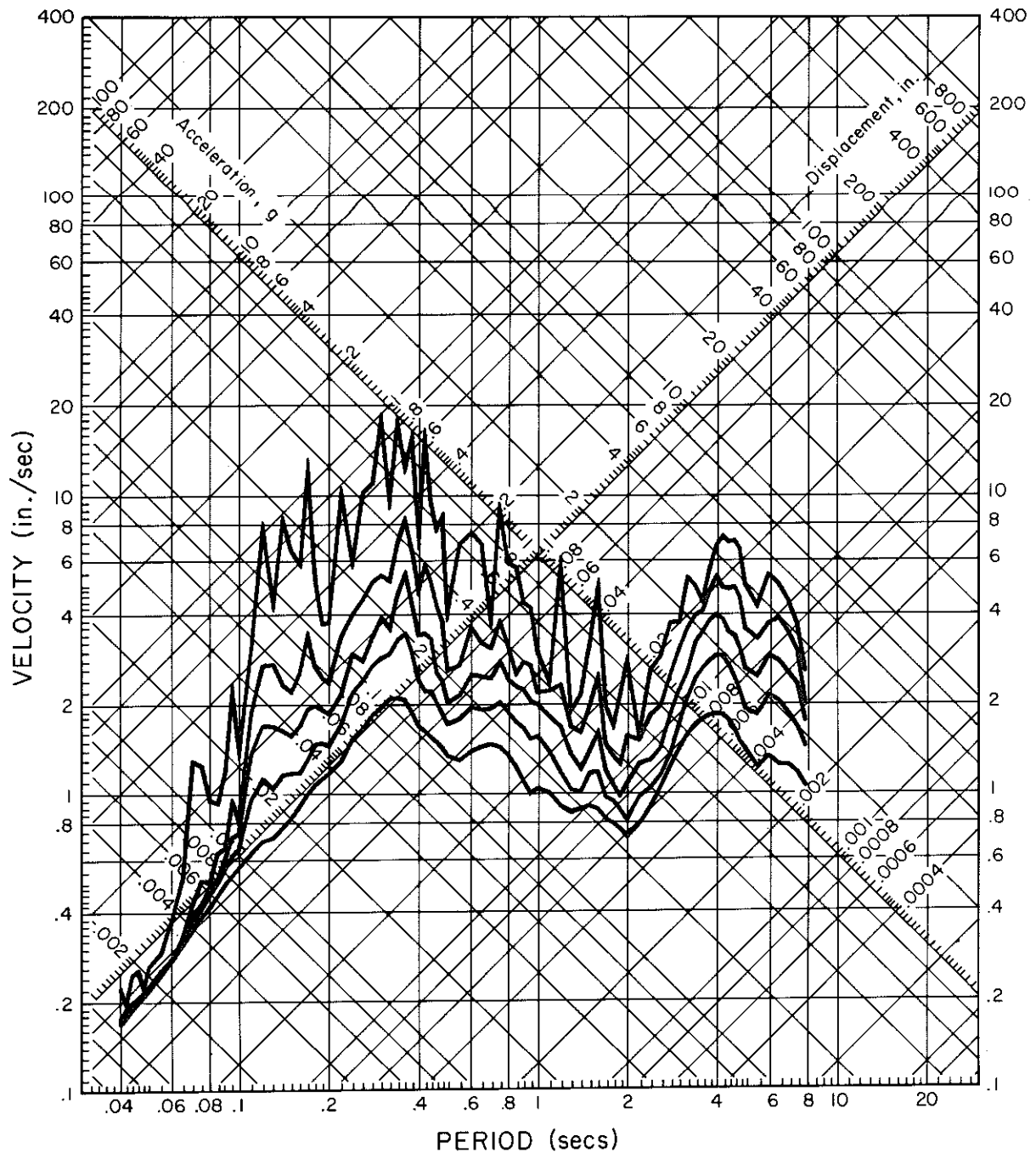


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN185 71.066.0 CARBON CANYON DAM, CAL. COMP S50E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN185 71.066.0 CARBON CANYON DAM, CAL. CUMP S50E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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0.040	498-4	143-5	108-3	914-4	224-3	113-5	587-4	727-4	178-3	112-5	551-4	722-4	176-3	110-5	503-4	708-4	173-3	108-5	458-4	695-4	170-3																												
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0.060	306-3	374-5	312-3	106-3	391-3	269-5	107-3	765-4	282-3	271-5	109-3	772-4	284-3	273-5	104-3	779-4	286-3	270-5	962-4	776-4	282-3																												
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0.150	582-2	157-3	655-2	717-3	661-2	536-4	219-2	243-3	224-2	381-4	156-2	172-3	159-2	284-4	107-2	131-3	119-2	201-4	706-3	954-4	844-3																												
0.160	372-2	152-3	592-2	607-3	597-2	670-4	255-2	269-3	263-2	441-4	168-2	178-3	173-2	304-4	112-2	123-3	119-2	235-4	724-3	980-4	923-3																												
C.170	110-1	336-3	124-1	119-2	124-1	942-4	340-2	334-3	348-2	532-4	179-2	189-3	196-2	358-4	117-2	129-3	132-2	274-4	771-3	101-3	101-2																												
0.180	432-2	152-3	512-2	482-3	534-2	781-4	261-2	248-3	272-2	577-4	191-2	184-3	201-2	429-4	131-2	138-3	149-2	312-4	820-3	103-3	109-2																												
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0.340	176-1	967-3	179-1	856-3	178-1	387-3	732-2	340-3	715-2	258-3	523-2	228-3	476-2	182-3	368-2	168-3	337-2	116-3	231-2	111-3	214-2																												
0.360	619-2	719-3	127-1	568-3	125-1	487-3	875-2	386-3	851-2	321-3	569-2	257-3	560-2	202-3	365-2	165-3	353-2	120-3	221-2	104-3	210-2																												
0.380	142-1	960-3	159-1	680-3	158-1	400-3	719-2	285-3	662-2	264-3	496-2	187-3	437-2	183-3	345-2	133-3	303-2	115-3	222-2	907-4	191-2																												
0.400	676-2	474-3	736-2	303-3	744-2	310-3	533-2	198-3	488-2	221-3	399-2	143-3	347-2	156-3	300-2	103-3	245-2	109-3	214-2	785-4	172-2																												
0.420	144-1	104-2	156-1	607-3	156-1	396-3	605-2	229-3	592-2	235-3	372-2	138-3	351-2	150-3	271-2	891-4	224-2	111-3	204-2	720-4	166-2																												
0.440	791-2	678-3																																															

IIIN185 71.066.0 CARBON CANYON DAM, CAL. COMP S50E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	723-2	108-2	925-2	198-3	912-2	460-3	406-2	837-4	385-2	338-3	303-2	620-4	283-2	245-3	233-2	460-4	205-2
0.80	581-2	763-3	611-2	122-3	599-2	404-3	373-2	648-4	317-2	312-3	298-2	501-4	245-2	241-3	240-2	399-4	190-2
0.85	486-2	789-3	574-2	111-3	583-2	347-3	287-2	493-4	256-2	314-3	263-2	449-4	232-2	239-3	230-2	349-4	176-2
0.90	301-2	634-3	476-2	800-4	442-2	403-3	296-2	510-4	281-2	324-3	262-2	414-4	226-2	241-3	214-2	316-4	168-2
0.95	264-2	645-3	452-2	731-4	426-2	414-3	350-2	471-4	273-2	313-3	281-2	357-4	207-2	233-3	223-2	269-4	154-2
1.00	290-2	484-3	290-2	495-4	304-2	353-3	285-2	361-4	222-2	323-3	259-2	332-4	203-2	252-3	212-2	264-4	158-2
1.10	175-2	421-3	271-2	356-4	240-2	394-3	245-2	333-4	225-2	322-3	207-2	274-4	184-2	245-3	193-2	213-4	140-2
1.20	513-2	112-2	591-2	801-4	590-2	449-3	285-2	319-4	235-2	324-3	213-2	233-4	170-2	227-3	174-2	171-4	119-2
1.30	150-2	396-3	248-2	239-4	191-2	352-3	225-2	213-4	170-2	284-3	193-2	173-4	137-2	216-3	164-2	134-4	104-2
1.40	486-3	491-3	225-2	256-4	220-2	362-3	173-2	189-4	162-2	273-3	168-2	143-4	122-2	229-3	165-2	123-4	102-2
1.50	240-2	781-3	328-2	355-4	327-2	480-3	225-2	218-4	201-2	340-3	178-2	156-4	142-2	284-3	165-2	134-4	118-2
1.60	464-2	128-2	503-2	511-4	502-2	639-3	266-2	255-4	251-2	417-3	197-2	169-4	164-2	305-3	169-2	129-4	120-2
1.70	668-3	540-3	256-2	191-4	199-2	401-3	210-2	142-4	148-2	326-3	188-2	118-4	120-2	266-3	164-2	101-4	985-3
1.80	104-2	488-3	229-2	154-4	170-2	386-3	198-2	122-4	134-2	309-3	170-2	100-4	108-2	274-3	148-2	943-5	957-3
1.90	219-2	664-3	219-2	188-4	158-2	537-3	156-2	113-4	153-2	448-3	150-2	951-5	128-2	346-3	142-2	844-5	890-3
2.00	284-2	905-3	284-2	231-4	284-2	504-3	182-2	129-4	158-2	349-3	155-2	897-5	109-2	262-3	140-2	739-5	825-3
2.20	147-2	555-3	160-2	117-4	158-2	537-3	156-2	113-4	153-2	448-3	150-2	951-5	128-2	346-3	142-2	741-5	989-3
2.40	216-2	101-2	259-2	179-4	265-2	714-3	194-2	126-4	186-2	502-3	149-2	894-5	131-2	407-3	137-2	732-5	106-2
2.60	295-2	122-2	296-2	185-4	296-2	837-3	185-2	126-4	202-2	602-3	138-2	915-5	145-2	486-3	135-2	741-5	117-2
2.80	383-2	170-2	383-2	222-4	383-2	114-2	249-2	149-4	256-2	844-3	188-2	110-4	189-2	617-3	141-2	812-5	138-2
3.00	378-2	182-2	394-2	207-4	382-2	149-2	320-2	170-4	314-2	109-2	245-2	125-4	229-2	831-3	168-2	955-5	174-2
3.20	428-2	274-2	542-2	274-4	539-2	187-2	372-2	187-4	367-2	134-2	259-2	134-4	264-2	109-2	206-2	112-4	215-2
3.40	503-2	272-2	503-2	241-4	503-2	219-2	386-2	194-4	404-2	178-2	304-2	158-4	323-2	134-2	235-2	122-4	248-2
3.60	372-2	256-2	437-2	202-4	448-2	240-2	394-2	189-4	418-2	205-2	321-2	163-4	358-2	154-2	251-2	124-4	269-2
3.80	335-2	348-2	565-2	246-4	575-2	296-2	469-2	210-4	490-2	236-2	388-2	168-4	391-2	173-2	294-2	124-4	286-2
4.00	547-2	442-2	704-2	283-4	695-2	347-2	567-2	222-4	546-2	258-2	442-2	166-4	406-2	189-2	321-2	122-4	297-2
4.20	745-2	498-2	744-2	288-4	745-2	333-2	540-2	193-4	499-2	262-2	438-2	153-4	392-2	196-2	325-2	117-4	294-2
4.40	707-2	495-2	732-2	261-4	707-2	346-2	522-2	183-4	493-2	248-2	393-2	132-4	355-2	192-2	318-2	105-4	275-2
4.60	713-2	527-2	713-2	254-4	719-2	367-2	498-2	177-4	501-2	253-2	379-2	123-4	346-2	183-2	309-2	904-5	250-2
4.80	668-2	512-2	703-2	227-4	671-2	351-2	493-2	155-4	459-2	238-2	349-2	106-4	312-2	171-2	284-2	779-5	224-2
5.00	435-2	405-2	542-2	166-4	510-2	289-2	404-2	118-4	363-2	212-2	309-2	876-5	257-2	155-2	244-2	662-5	195-2
5.50	279-2	376-2	460-2	127-4	430-2	294-2	366-2	996-5	336-2	221-2	292-2	752-5	252-2	164-2	233-2	576-5	187-2
6.00	463-2	525-2	551-2	149-4	550-2	362-2	406-2	103-4	379-2	283-2	321-2	810-5	296-2	209-2	245-2	611-5	219-2
6.50	488-2	528-2	590-2	127-4	510-2	408-2	461-2	991-5	395-2	294-2	338-2	719-5	284-2	215-2	267-2	533-5	208-2
7.00	344-2	498-2	516-2	104-4	447-2	392-2	425-2	820-5	352-2	288-2	334-2	606-5	258-2	210-2	261-2	460-5	188-2
7.50	264-2	445-2	408-2	809-5	373-2	366-2	353-2	666-5	306-2	283-2	288-2	520-5	237-2	203-2	238-2	392-5	170-2
8.00	252-2	331-2	353-2	530-5	260-2	262-2	306-2	420-5	206-2	226-2	254-2	368-5	178-2	186-2	222-2	313-5	146-2

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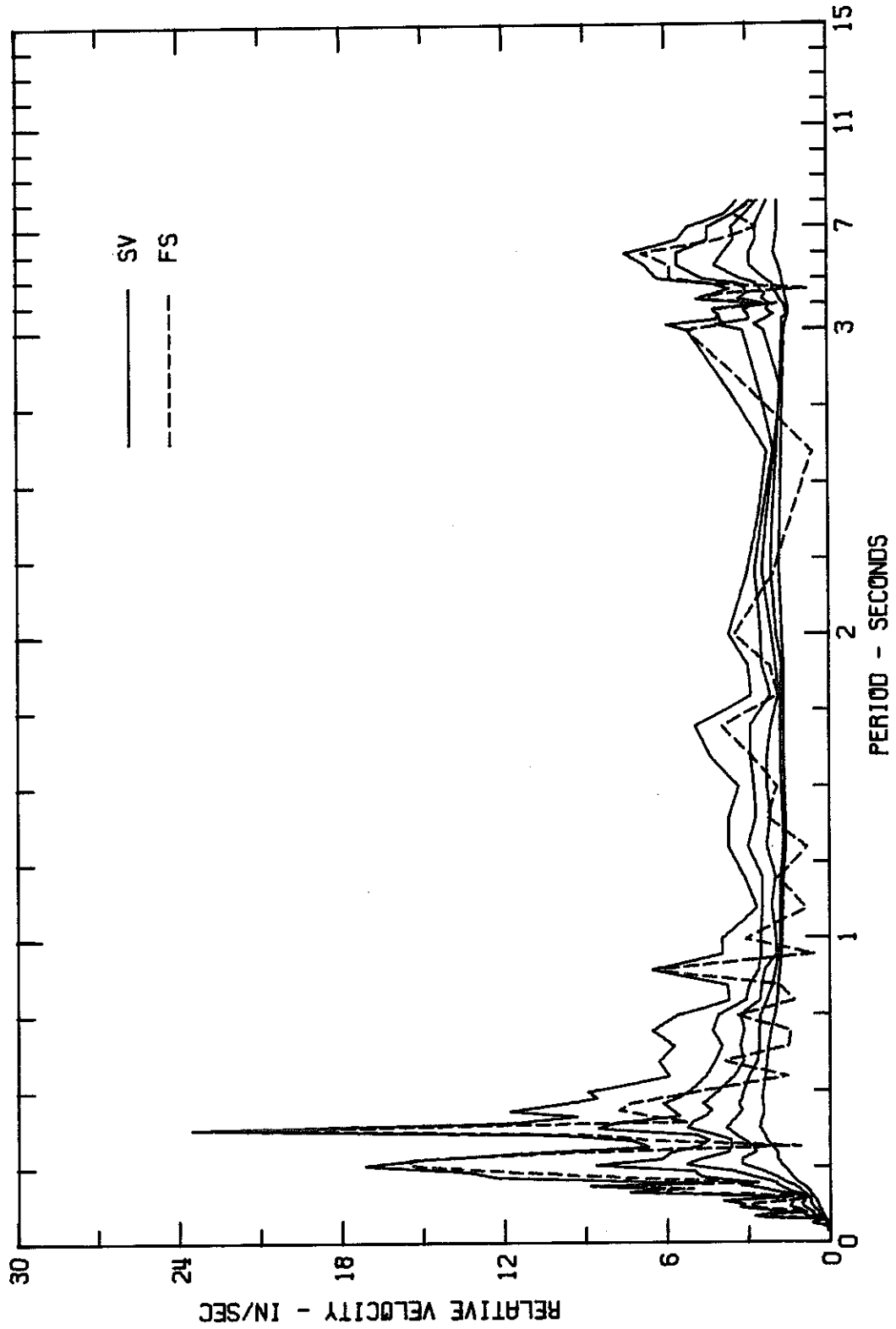
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DAMPING = 10 PER CENT

DAMPING = 20 PER CENT

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111N185 71.066.0 CARBON CANYON DAM, CAL. COMP S40W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

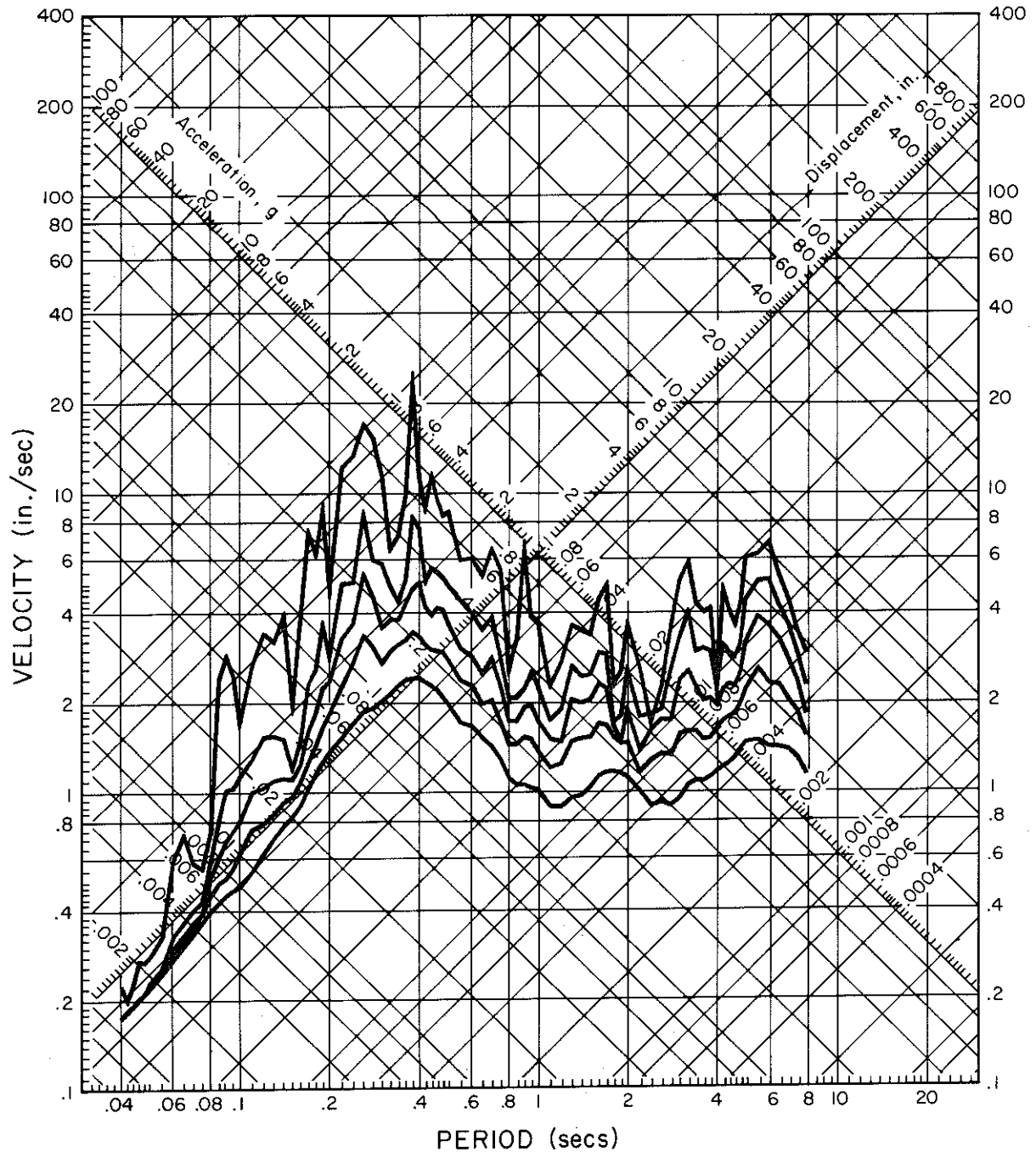


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN185 71.066.0 CARBON CANYON DAM, CAL. COMP S40W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN185 71.066.0 CARBON CANYON DAM, CAL. COMP S40W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

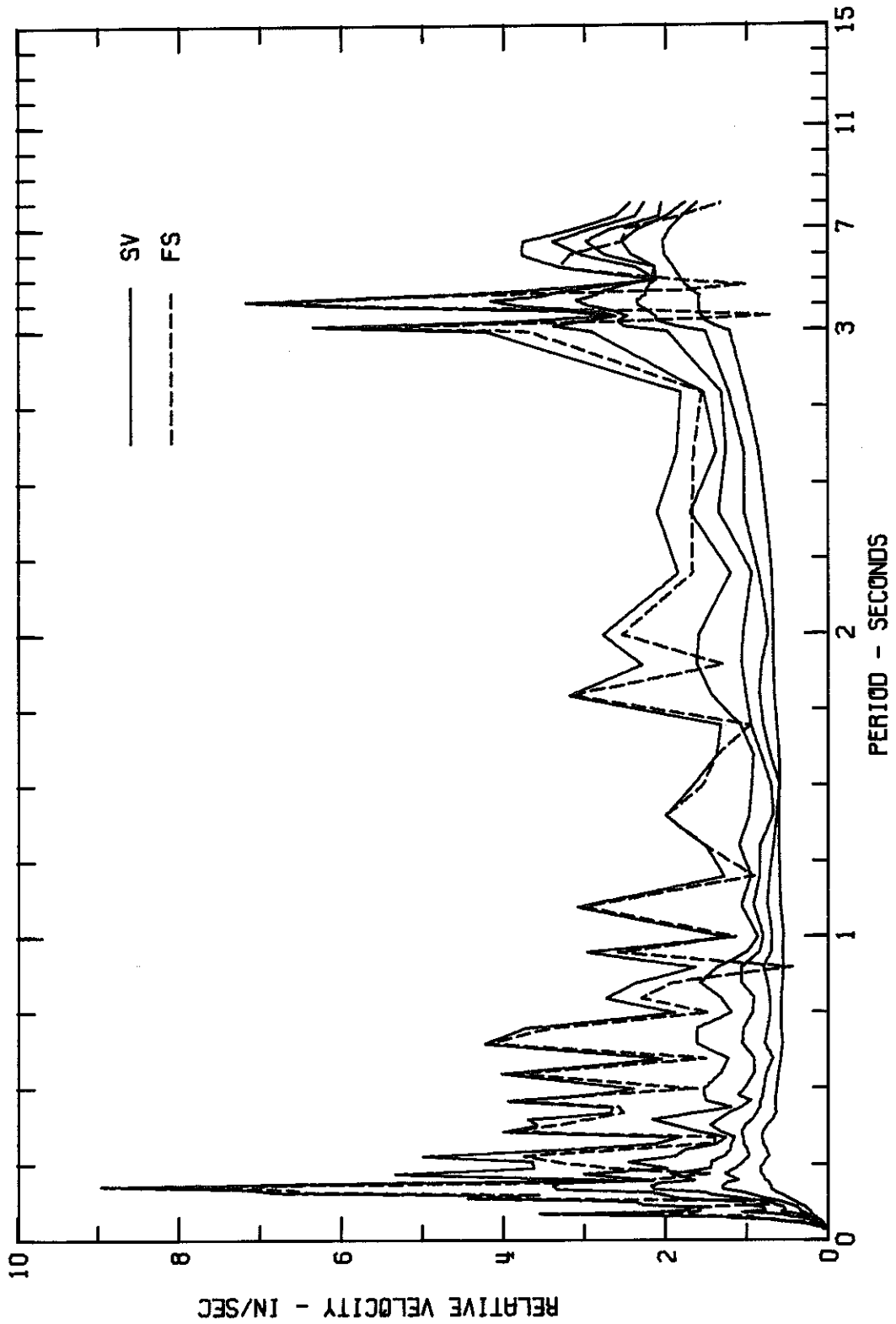
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0.040	380-4	142-5	100-3	908-4	223-3	111-5	428-4	716-4	175-3	111-5	379-4	716-4	175-3	111-5	375-4	714-4	175-3	111-5	379-4	712-4	174-3	111-5	379-4	712-4	174-3	111-5	379-4	712-4	174-3	111-5	379-4	712-4	174-3						
0.042	377-4	133-5	758-4	775-4	199-3	124-5	458-4	719-4	185-3	123-5	412-4	716-4	184-3	123-5	417-4	714-4	184-3	122-5	420-4	714-4	183-3	122-5	420-4	714-4	183-3	122-5	420-4	714-4	183-3	122-5	420-4	714-4	183-3						
0.044	332-4	162-5	953-4	858-4	231-3	134-5	514-4	710-4	191-3	135-5	459-4	714-4	193-3	135-5	464-4	715-4	193-3	134-5	465-4	716-4	192-3	134-5	465-4	716-4	192-3	134-5	465-4	716-4	192-3	134-5	465-4	716-4	192-3						
0.046	627-4	199-5	110-3	963-4	272-3	149-5	558-4	722-4	204-3	148-5	514-4	719-4	203-3	148-5	515-4	719-4	202-3	147-5	514-4	718-4	202-3	147-5	514-4	718-4	202-3	147-5	514-4	718-4	202-3	147-5	514-4	718-4	202-3						
0.048	109-3	206-5	124-3	915-4	269-3	161-5	596-4	716-4	211-3	162-5	569-4	723-4	213-3	162-5	572-4	722-4	212-3	161-5	568-4	721-4	211-3	161-5	568-4	721-4	211-3	161-5	568-4	721-4	211-3	161-5	568-4	721-4	211-3						
0.050	493-4	224-5	114-3	919-4	282-3	184-5	680-4	752-4	231-3	178-5	632-4	730-4	224-3	177-5	635-4	724-4	222-3	176-5	625-4	723-4	221-3	176-5	625-4	723-4	221-3	176-5	625-4	723-4	221-3	176-5	625-4	723-4	221-3						
0.055	492-4	289-5	171-3	980-4	331-3	225-5	925-4	764-4	257-3	220-5	833-4	743-4	251-3	219-5	824-4	744-4	250-3	217-5	788-4	737-4	248-3	217-5	788-4	737-4	248-3	217-5	788-4	737-4	248-3	217-5	788-4	737-4	248-3						
0.060	179-3	572-5	422-3	162-3	599-3	316-5	128-3	895-4	330-3	288-5	107-3	820-4	301-3	274-5	105-3	778-4	287-3	263-5	971-4	755-4	275-3	263-5	971-4	755-4	275-3	263-5	971-4	755-4	275-3	263-5	971-4	755-4	275-3						
0.065	635-3	748-5	675-3	181-3	723-3	380-5	175-3	920-4	368-3	344-5	149-3	835-4	332-3	329-5	131-3	796-4	318-3	315-5	116-3	771-4	304-3	315-5	116-3	771-4	304-3	315-5	116-3	771-4	304-3	315-5	116-3	771-4	304-3						
0.070	459-3	648-5	476-3	135-3	581-3	450-5	208-3	939-4	404-3	410-5	170-3	853-4	368-3	395-5	146-3	823-4	355-3	373-5	135-3	789-4	335-3	373-5	135-3	789-4	335-3	373-5	135-3	789-4	335-3	373-5	135-3	789-4	335-3						
0.075	282-3	665-5	489-3	120-3	557-3	516-5	229-3	935-4	432-3	467-5	192-3	850-4	391-3	472-5	176-3	861-4	395-3	439-5	161-3	810-4	368-3	439-5	161-3	810-4	368-3	439-5	161-3	810-4	368-3	439-5	161-3	810-4	368-3						
0.080	418-3	955-5	591-3	152-3	750-3	758-5	368-3	121-3	595-3	663-5	278-3	106-3	521-3	577-5	230-3	928-4	453-3	508-5	193-3	821-4	399-3	508-5	193-3	821-4	399-3	508-5	193-3	821-4	399-3	508-5	193-3	821-4	399-3						
0.085	233-2	329-4	241-2	466-3	243-2	108-4	692-3	153-3	798-3	820-5	381-3	117-3	606-3	675-5	290-3	969-4	499-3	579-5	229-3	836-4	428-3	579-5	229-3	836-4	428-3	579-5	229-3	836-4	428-3	579-5	229-3	836-4	428-3						
0.090	217-2	414-4	281-2	523-3	289-2	146-4	928-3	186-3	102-2	984-5	584-3	123-3	686-3	739-5	380-3	942-4	516-3	647-5	258-3	829-4	451-3	647-5	258-3	829-4	451-3	647-5	258-3	829-4	451-3	647-5	258-3	829-4	451-3						
0.095	205-2	372-4	237-2	421-3	246-2	156-4	101-2	177-3	103-2	112-4	687-3	129-3	745-3	845-5	428-3	975-4	559-3	711-5	287-3	825-4	470-3	711-5	287-3	825-4	470-3	711-5	287-3	825-4	470-3	711-5	287-3	825-4	470-3						
0.100	850-3	273-4	144-2	279-3	171-2	181-4	911-3	186-3	113-2	127-4	610-3	131-3	799-3	990-5	423-3	102-3	622-3	766-5	308-3	811-4	481-3	766-5	308-3	811-4	481-3	766-5	308-3	811-4	481-3	766-5	308-3	811-4	481-3						
0.110	195-2	475-4	251-2	401-3	271-2	229-4	111-2	195-3	130-2	176-4	820-3	148-3	100-2	132-4	550-3	110-3	756-3	951-5	387-3	822-4	543-3	951-5	387-3	822-4	543-3	951-5	387-3	822-4	543-3	951-5	387-3	822-4	543-3						
0.120	298-2	656-4	333-2	466-3	343-2	295-4	147-2	211-3	154-2	198-4	986-3	143-3	104-2	149-4	653-3	107-3	784-3	118-4	435-3	871-4	622-3	118-4	435-3	871-4	622-3	118-4	435-3	871-4	622-3	118-4	435-3	871-4	622-3						
0.130	278-2	665-4	319-2	402-3	321-2	321-4	146-2	193-3	155-2	228-4	105-2	136-3	110-2	175-4	730-3	105-3	849-3	145-4	469-3	903-4	702-3	145-4	469-3	903-4	702-3	145-4	469-3	903-4	702-3	145-4	469-3	903-4	702-3						
0.140	142-2	882-4	393-2	460-3	395-2	338-4	136-2	177-3	152-2	250-4	989-3	131-3	112-2	207-4	737-3	110-3	932-3	172-4	539-3	936-4	772-3	172-4	539-3	936-4	772-3	172-4	539-3	936-4	772-3	172-4	539-3	936-4	772-3						
0.150	713-3	471-4	158-2	214-3	197-2	287-4	105-2	130-3	120-2	265-4	926-3	121-3	111-2	232-4	812-3	106-3	972-3	198-4	614-3	938-4	830-3	972-3	198-4	614-3	938-4	830-3	972-3	198-4	614-3	938-4	830-3	972-3	198-4	614-3					
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0.190	871-2	270-3	888-2	766-3	894-2	111-3	332-2	314-3	367-2	685-4	195-2	194-3	226-2	505-4	137-2	143-3	167-2	385-4	102-2	113-3	127-2	385-4	102-2	113-3	127-2	385-4	102-2	113-3	127-2	385-4	102-2	113-3	127-2						
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0.240	119-1	515-3	134-1	915-3	135-1	194-3	501-2	347-3	508-2	142-3	363-2	256-3	372-2	105-3	254-2	188-3	275-2	655-4	157-2	126-3	171-2	655-4	157-2	126-3	171-2	655-4	157-2	126-3	171-2	655-4	157-2	126-3	171-2						
0.260	156-1	714-3	172-1	108-2	172-1	356-3	867-2	536-3	861-2	224-3	531-2	343-3	543-2	140-3	325-2	216-3	338-2	777-4	182-2	124-3	187-2	777-4	182-2	124-3	187-2	777-4	182-2	124-3	187-2	777-4	182-2	124-3	187-2						
0.280	154-1	684-3	152-1	893-3	153-1	271-3	617-2	351-3	608-2	201-3	471-2	261-3	451-2	137-3																									

IIIN185 71.066.0 CARBON CANYON DAM, CAL. COMP S40W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	340-2	668-3	560-2	121-3	559-2	339-3	411-2	616-4	284-4	284-2	272-3	331-2	501-4	228-2	206-3	256-2	333-4
0.80	132-2	329-3	371-2	526-4	258-2	265-3	311-2	427-4	208-2	222-3	222-3	255-2	360-4	174-2	184-3	233-2	312-4
0.85	187-2	447-3	378-2	633-4	330-2	282-3	296-2	400-4	208-2	235-3	235-3	251-2	337-4	174-2	196-3	210-2	288-4
0.90	656-2	940-3	656-2	118-3	656-2	321-3	261-2	405-4	224-2	279-3	279-3	238-2	356-4	195-2	220-3	199-2	289-4
0.95	569-3	587-3	393-2	665-4	388-2	386-3	254-2	437-4	255-2	295-3	295-3	197-2	338-4	195-2	228-3	187-2	271-4
1.00	311-2	585-3	396-2	598-4	367-2	359-3	252-2	367-4	225-2	277-3	277-3	198-2	286-4	174-2	219-3	180-2	235-4
1.10	853-3	399-3	269-2	337-4	228-2	308-3	246-2	260-4	175-2	265-3	265-3	213-2	226-4	151-2	212-3	180-2	189-4
1.20	191-2	527-3	313-2	374-4	276-2	365-3	246-2	260-4	191-2	283-3	283-3	198-2	202-4	148-2	239-3	178-2	175-4
1.30	810-3	754-3	374-2	456-4	364-2	551-3	301-2	334-4	266-2	426-3	426-3	233-2	259-4	206-2	307-3	169-2	190-4
1.40	230-2	780-3	371-2	407-4	350-2	546-3	272-2	285-4	245-2	447-3	447-3	217-2	235-4	201-2	339-3	171-2	182-4
1.50	192-2	811-3	335-2	368-4	339-2	596-3	280-2	270-4	249-2	490-3	490-3	231-2	224-4	205-2	367-3	177-2	170-4
1.60	286-2	114-2	439-2	458-4	450-2	755-3	292-2	302-4	296-2	594-3	594-3	228-2	239-4	233-2	435-3	180-2	178-4
1.70	398-2	135-2	497-2	479-4	501-2	789-3	291-2	279-4	291-2	605-3	605-3	213-2	215-4	223-2	454-3	181-2	163-4
1.80	190-2	663-3	289-2	209-4	231-2	495-3	217-2	156-4	173-2	475-3	475-3	186-2	151-4	165-2	442-3	179-2	141-4
1.90	221-2	781-3	300-2	194-4	262-2	630-3	275-2	133-4	180-2	486-3	486-3	246-2	103-4	139-2	409-3	215-2	128-4
2.00	350-2	117-2	371-2	299-4	367-2	824-3	254-2	210-4	259-2	607-3	607-3	214-2	156-4	190-2	468-3	196-2	124-4
2.20	205-2	919-3	300-2	194-4	262-2	630-3	275-2	133-4	180-2	486-3	486-3	246-2	103-4	139-2	409-3	215-2	128-4
2.40	135-2	654-3	256-2	116-4	171-2	702-3	242-2	124-4	183-2	624-3	624-3	226-2	111-4	163-2	492-3	204-2	891-5
2.60	599-3	944-3	227-2	142-4	228-2	790-3	202-2	119-4	190-2	731-3	731-3	198-2	111-4	176-2	559-3	190-2	864-5
2.80	282-2	163-2	363-2	212-4	365-2	116-2	254-2	152-4	261-2	784-3	784-3	173-2	102-4	175-2	594-3	174-2	789-5
3.00	520-2	248-2	521-2	282-4	521-2	160-2	316-2	182-4	335-2	114-2	114-2	238-2	131-4	240-2	753-3	165-2	876-5
3.20	383-2	303-2	594-2	303-4	595-2	205-2	413-2	205-4	404-2	130-2	130-2	270-2	131-4	257-2	818-3	169-2	840-5
3.40	396-2	233-2	409-2	206-4	430-2	161-2	289-2	142-4	297-2	122-2	122-2	232-2	109-4	227-2	868-3	169-2	795-5
3.60	403-2	231-2	403-2	182-4	403-2	174-2	295-2	137-4	304-2	116-2	116-2	199-2	927-5	204-2	864-3	152-2	699-5
3.80	416-2	251-2	423-2	178-4	416-2	179-2	311-2	127-4	296-2	125-2	125-2	227-2	895-5	207-2	922-3	154-2	663-5
4.00	187-2	141-2	266-2	902-5	221-2	143-2	239-2	919-5	225-2	124-2	124-2	214-2	800-5	195-2	104-2	163-2	684-5
4.20	482-2	322-2	486-2	187-4	482-2	209-2	330-2	121-4	313-2	149-2	149-2	240-2	871-5	223-2	117-2	177-2	703-5
4.40	391-2	285-2	418-2	150-4	407-2	207-2	300-2	109-4	296-2	163-2	163-2	232-2	865-5	232-2	126-2	186-2	692-5
4.60	755-3	266-2	362-2	128-4	364-2	208-2	305-2	101-4	284-2	167-2	167-2	251-2	822-5	229-2	135-2	201-2	672-5
4.80	431-2	330-2	437-2	146-4	432-2	241-2	333-2	107-4	315-2	193-2	193-2	264-2	864-5	253-2	152-2	206-2	691-5
5.00	583-2	490-2	629-2	200-4	616-2	354-2	462-2	145-4	445-2	254-2	254-2	326-2	104-4	320-2	177-2	234-2	738-5
5.50	582-2	554-2	673-2	187-4	633-2	450-2	555-2	152-4	514-2	342-2	342-2	419-2	116-4	391-2	229-2	288-2	797-5
6.00	688-2	662-2	747-2	188-4	693-2	496-2	555-2	141-4	519-2	346-2	346-2	384-2	991-5	362-2	222-2	288-2	651-5
6.50	397-2	554-2	553-2	134-4	536-2	436-2	441-2	105-4	422-2	338-2	338-2	345-2	827-5	327-2	238-2	266-2	596-5
7.00	261-2	492-2	518-2	102-4	441-2	404-2	441-2	846-5	363-2	310-2	310-2	356-2	650-5	278-2	227-2	268-2	500-5
7.50	347-2	414-2	379-2	754-5	347-2	348-2	347-2	634-5	291-2	281-2	281-2	304-2	514-5	235-2	222-2	247-2	429-5
8.00	275-2	375-2	333-2	599-5	294-2	293-2	285-2	469-5	230-2	235-2	235-2	259-2	382-5	184-2	198-2	222-2	338-5

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111N185 71.066.0 CARBON CANYON DAM, CAL. COMP DOWN
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

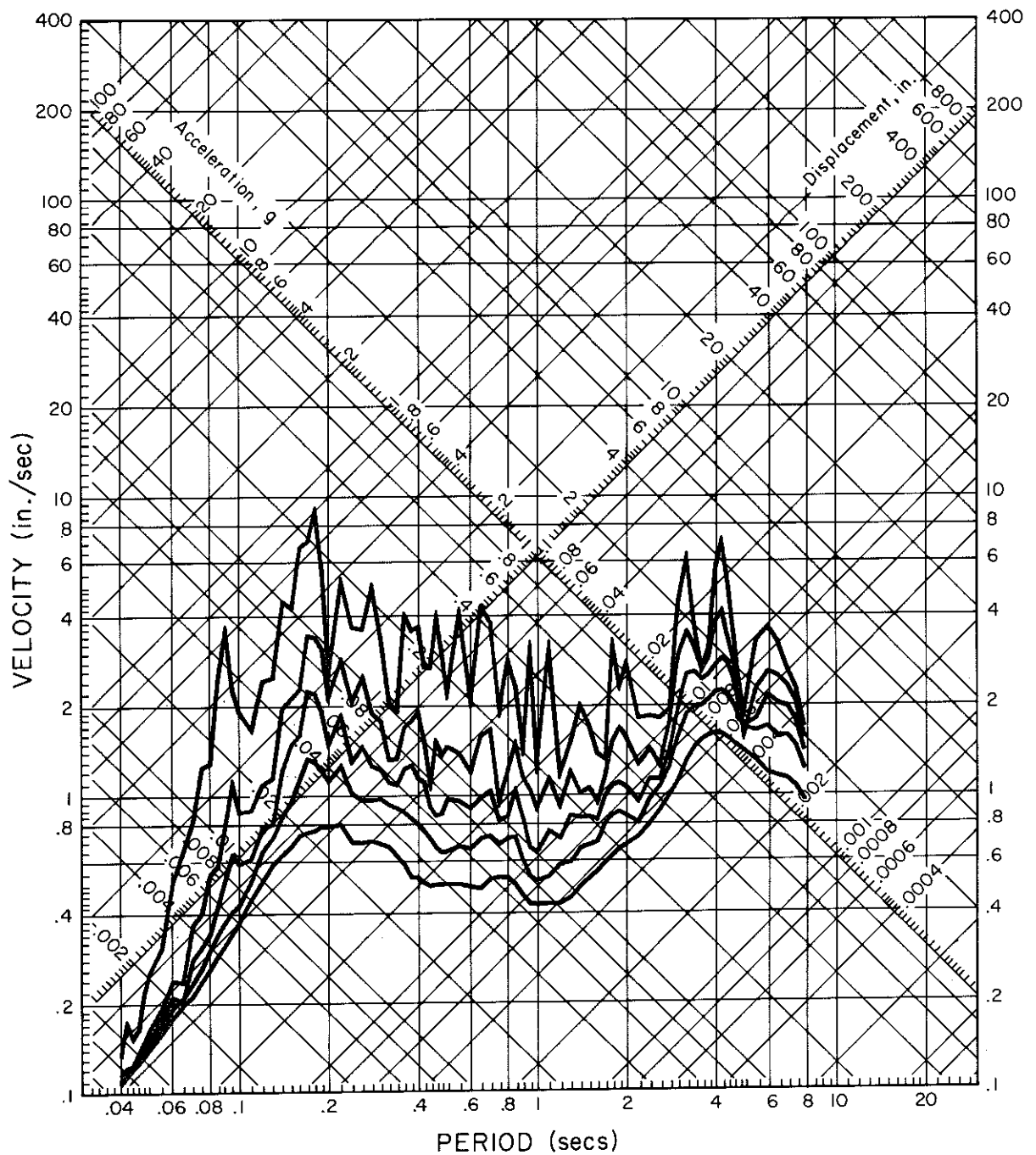


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

11IN185 71.066.0 CARBON CANYON DAM, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

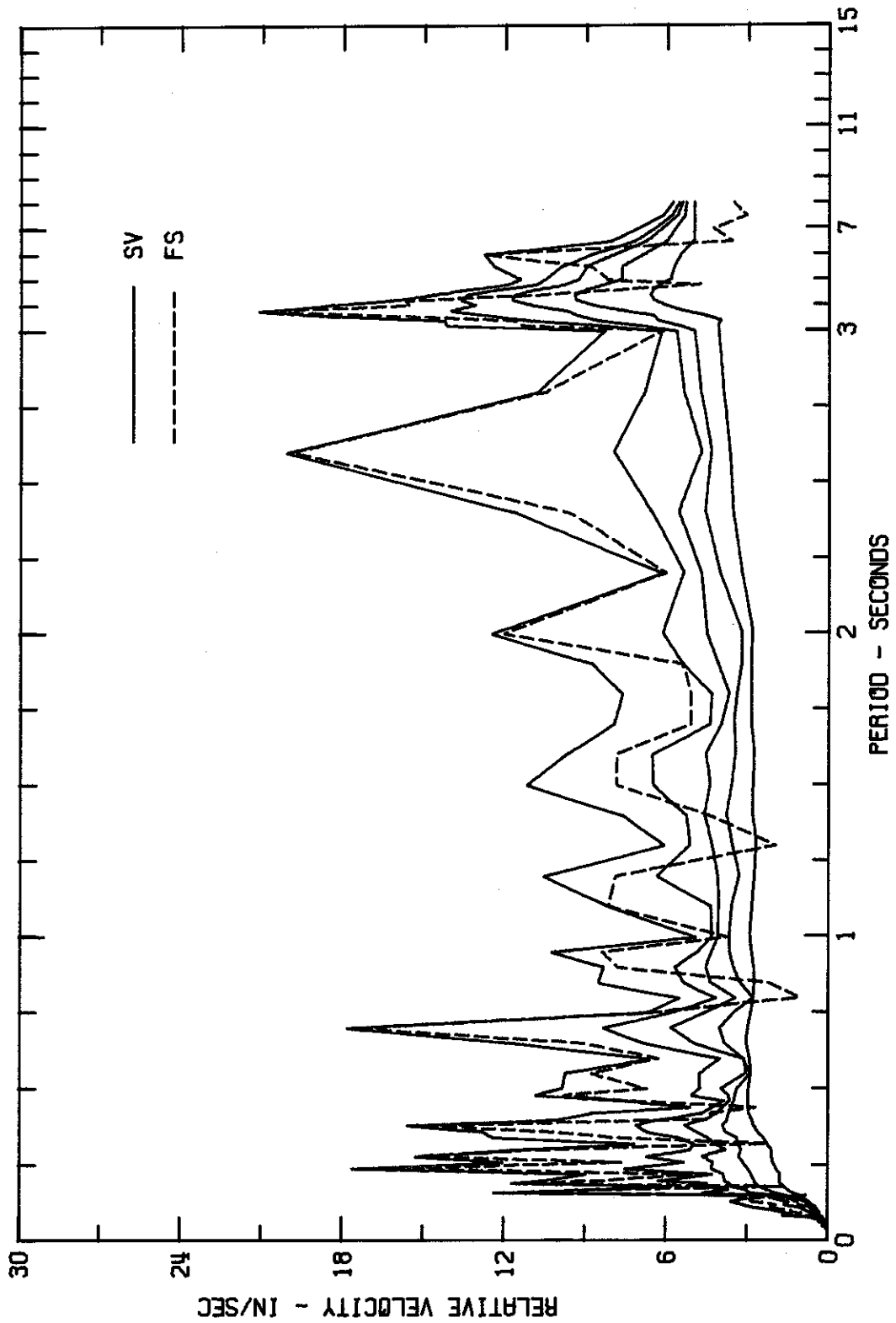


IIIN185 71.066.0 CARBON CANYON DAM, CAL. COMP DOWN

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT			
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV		
0.75	147-2	230-3	188-2	418-4	192-2	113-3	119-2	206-4	953-3	979-4	938-3	179-4	820-3	820-4	719-3	153-4	687-3		
0.80	230-2	361-3	274-2	577-4	283-2	154-3	132-2	247-4	121-2	108-3	911-3	175-4	852-3	919-4	726-3	152-4	722-3		
0.85	191-2	312-3	236-2	442-4	231-2	202-3	158-2	286-4	149-2	141-3	107-2	201-4	104-2	985-4	756-3	145-4	728-3		
0.90	444-3	208-3	163-2	263-4	145-2	164-3	136-2	207-4	114-2	120-3	107-2	152-4	840-3	870-4	800-3	113-4	607-3		
0.95	260-2	452-3	298-2	512-4	298-2	157-3	997-3	178-4	104-2	100-3	843-3	115-4	666-3	807-4	706-3	939-5	534-3		
1.00	114-2	204-3	123-2	209-4	128-2	144-3	877-3	147-4	905-3	102-3	802-3	105-4	645-3	825-4	697-3	866-5	518-3		
1.10	301-2	541-3	310-2	457-4	309-2	199-3	107-2	169-4	114-2	133-3	922-3	113-4	761-3	935-4	759-3	804-5	534-3		
1.20	919-3	224-3	128-2	159-4	117-2	175-3	952-3	125-4	921-3	137-3	846-3	980-5	718-3	935-4	723-3	814-5	589-3		
1.30	151-2	312-3	151-2	189-4	151-2	249-3	110-2	151-4	120-2	178-3	844-3	108-4	860-3	123-3	671-3	764-5	597-3		
1.40	200-2	447-3	200-2	233-4	200-2	227-3	974-3	118-4	102-2	188-3	684-3	988-5	843-3	148-3	634-3	796-5	665-3		
1.50	155-2	409-3	166-2	186-4	171-2	253-3	949-3	115-4	106-2	202-3	716-3	926-5	847-3	162-3	603-3	753-5	681-3		
1.60	137-2	350-3	137-2	140-4	137-2	240-3	924-3	962-5	946-3	211-3	838-3	846-5	829-3	178-3	728-3	726-5	702-3		
1.70	962-3	357-3	132-2	126-4	132-2	313-3	109-2	111-4	115-2	270-3	962-3	961-5	997-3	219-3	810-3	798-5	811-3		
1.80	318-2	913-3	320-2	288-4	318-2	437-3	144-2	138-4	152-2	310-3	102-2	984-5	108-2	247-3	852-3	801-5	863-3		
1.90	129-2	699-3	229-2	198-4	231-2	510-3	162-2	144-4	168-2	333-3	107-2	950-5	110-2	267-3	824-3	771-5	885-3		
2.00	254-2	883-3	278-2	225-4	277-2	498-3	159-2	127-4	156-2	340-3	105-2	874-5	106-2	272-3	741-3	709-5	857-3		
2.20	167-2	636-3	185-2	134-4	181-2	445-3	120-2	941-5	127-2	334-3	945-3	712-5	954-3	282-3	867-3	608-5	807-3		
2.40	167-2	706-3	211-2	125-4	184-2	547-3	170-2	972-5	143-2	434-3	135-2	776-5	113-2	371-3	104-2	673-5	972-3		
2.60	165-2	750-3	186-2	113-4	181-2	518-3	138-2	785-5	125-2	468-3	126-2	712-5	113-2	446-3	104-2	686-5	107-2		
2.80	155-2	867-3	181-2	113-4	194-2	786-3	154-2	102-4	176-2	627-3	132-2	823-5	140-2	560-3	123-2	746-5	125-2		
3.00	370-2	211-2	421-2	239-4	442-2	141-2	292-2	161-4	297-2	942-3	199-2	107-4	197-2	760-3	152-2	878-5	159-2		
3.20	613-2	318-2	636-2	317-4	624-2	179-2	339-2	179-4	353-2	130-2	253-2	130-4	256-2	959-3	192-2	977-5	188-2		
3.40	221-2	195-2	377-2	173-4	361-2	168-2	300-2	149-4	312-2	140-2	259-2	124-4	258-2	107-2	211-2	970-5	198-2		
3.60	696-3	150-2	269-2	119-4	263-2	151-2	261-2	119-4	263-2	139-2	247-2	110-4	243-2	114-2	213-2	927-5	199-2		
3.80	210-2	189-2	319-2	134-4	313-2	175-2	286-2	124-4	290-2	153-2	263-2	109-4	254-2	126-2	222-2	933-5	209-2		
4.00	563-2	370-2	586-2	236-4	582-2	244-2	384-2	156-4	383-2	174-2	297-2	111-4	273-2	141-2	234-2	934-5	221-2		
4.20	687-2	474-2	719-2	275-4	710-2	277-2	416-2	161-4	415-2	192-2	311-2	112-4	287-2	150-2	236-2	896-5	225-2		
4.40	495-2	357-2	519-2	189-4	511-2	236-2	351-2	124-4	337-2	193-2	287-2	102-4	276-2	151-2	225-2	819-5	216-2		
4.60	175-2	255-2	377-2	123-4	349-2	206-2	322-2	100-4	282-2	178-2	275-2	869-5	243-2	147-2	224-2	732-5	201-2		
4.80	101-2	182-2	281-2	809-5	238-2	162-2	268-2	720-5	212-2	154-2	249-2	690-5	201-2	140-2	220-2	645-5	183-2		
5.00	184-2	149-2	211-2	613-5	188-2	125-2	211-2	514-5	157-2	135-2	218-2	561-5	170-2	134-2	212-2	573-5	169-2		
5.50	331-2	290-2	331-2	982-5	331-2	199-2	238-2	675-5	228-2	159-2	213-2	543-5	181-2	144-2	214-2	510-5	165-2		
6.00	318-2	348-2	378-2	990-5	365-2	247-2	305-2	703-5	258-2	206-2	276-2	592-5	216-2	162-2	243-2	477-5	170-2		
6.50	254-2	335-2	376-2	812-5	324-2	259-2	340-2	628-5	250-2	210-2	299-2	513-5	203-2	162-2	254-2	403-5	156-2		
7.00	249-2	293-2	314-2	612-5	263-2	259-2	294-2	542-5	232-2	221-2	268-2	465-5	198-2	177-2	234-2	382-5	159-2		
7.50	182-2	269-2	261-2	490-5	225-2	243-2	237-2	444-5	204-2	212-2	208-2	390-5	177-2	173-2	198-2	329-5	145-2		
8.00	132-2	216-2	244-2	346-5	170-2	199-2	227-2	319-5	156-2	180-2	205-2	292-5	141-2	153-2	176-2	262-5	122-2		

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111N186 71.067.0 WHITTIER NARROWS DAM, CAL. COMP S37E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

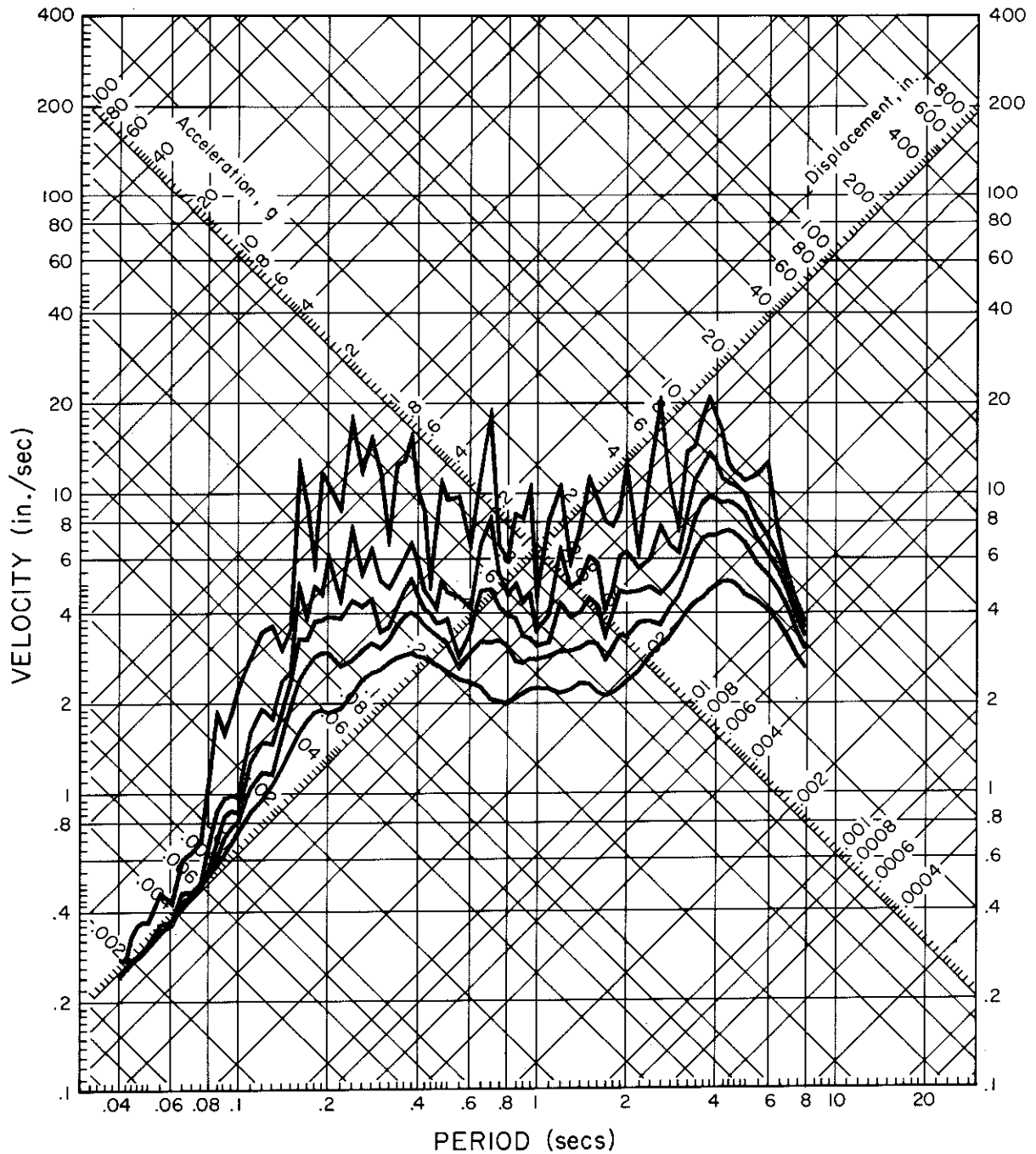


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

11IN186 71.067.0 WHITTIER NARROWS DAM, CAL. COMP S37E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN186 71.067.0 WHITTIER NARROWS DAM, CAL. COMP S37E

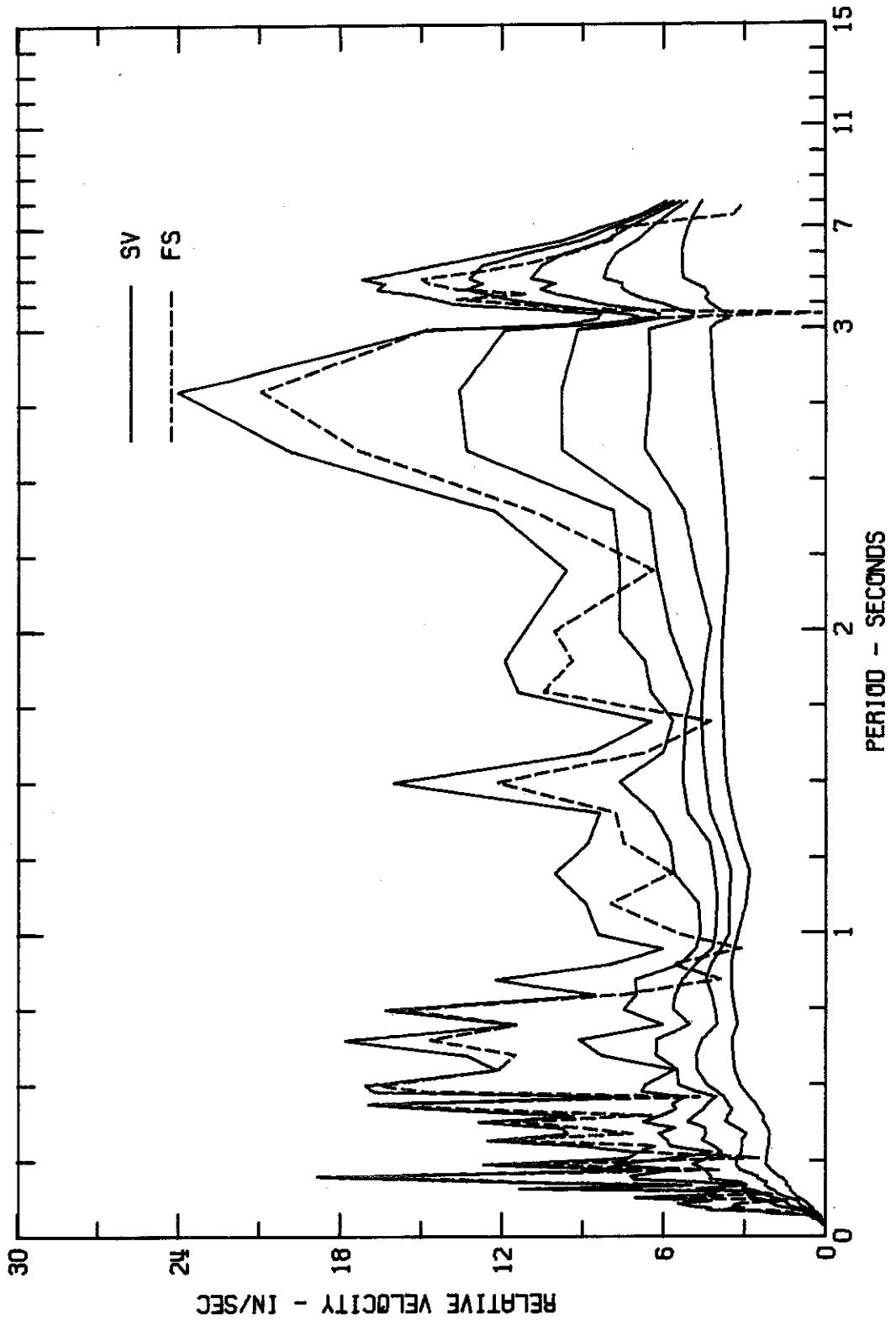
THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PER CENT										DAMPING = 20 PER CENT									
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV						
0.040	469-4	175-5	841-4	112-3	276-3	152-5	512-4	977-4	240-3	154-5	471-4	984-4	241-3	154-3	440-4	988-4	243-3	154-5	435-4	989-4	242-3	154-5	435-4	989-4	242-3	154-5	435-4	989-4	242-3	154-5	435-4	989-4	242-3	154-5					
0.042	677-5	182-5	862-4	106-3	273-3	173-5	520-4	100-3	259-3	171-5	499-4	995-4	256-3	171-5	481-4	991-4	255-3	170-5	481-4	991-4	255-3	170-5	481-4	991-4	255-3	170-5	481-4	991-4	255-3	170-5	481-4	991-4	255-3	170-5					
0.044	496-4	232-5	105-3	122-3	331-3	193-5	599-4	102-3	276-3	189-5	554-4	100-3	270-3	187-5	531-4	993-4	268-3	187-5	530-4	992-4	267-3	187-5	530-4	992-4	267-3	187-5	530-4	992-4	267-3	187-5	530-4	992-4	267-3	187-5					
0.046	835-4	263-5	157-3	127-3	359-3	207-5	710-4	100-3	283-3	204-5	640-4	987-4	279-3	204-5	603-4	991-4	279-3	205-5	583-4	993-4	280-3	205-5	583-4	993-4	280-3	205-5	583-4	993-4	280-3	205-5	583-4	993-4	280-3	205-5					
0.048	127-3	283-5	193-3	125-3	371-3	223-5	779-4	993-4	292-3	221-5	709-4	983-4	289-3	223-5	669-4	990-4	292-3	223-5	639-4	995-4	293-3	223-5	639-4	995-4	293-3	223-5	639-4	995-4	293-3	223-5	639-4	995-4	293-3	223-5					
0.050	161-3	293-5	185-3	119-3	368-3	248-5	811-4	101-3	312-3	242-5	781-4	992-4	304-3	242-5	731-4	992-4	304-3	243-5	699-4	998-4	305-3	243-5	699-4	998-4	305-3	243-5	699-4	998-4	305-3	243-5	699-4	998-4	305-3	243-5					
0.055	121-3	404-5	223-3	136-3	462-3	317-5	125-3	107-3	362-3	300-5	977-4	101-3	342-3	295-5	891-4	100-3	337-3	296-5	862-4	100-3	338-3	296-5	862-4	100-3	338-3	296-5	862-4	100-3	338-3	296-5	862-4	100-3	338-3	296-5					
0.060	193-3	407-5	213-3	115-3	426-3	354-5	158-3	100-3	370-3	343-5	133-3	976-4	359-3	351-5	119-3	100-3	368-3	355-5	106-3	101-3	372-3	355-5	106-3	101-3	372-3	355-5	106-3	101-3	372-3	355-5	106-3	101-3	372-3	355-5					
0.065	272-3	618-5	388-3	149-3	598-3	481-5	217-3	116-3	465-3	447-5	182-3	108-3	432-3	428-5	151-3	104-3	414-3	423-5	129-3	102-3	409-3	423-5	129-3	102-3	409-3	423-5	129-3	102-3	409-3	423-5	129-3	102-3	409-3	423-5					
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THE UNITS USED ARE SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111N186 71.067.0 WHITTIER NARROWS DAM, CAL. COMP S53W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

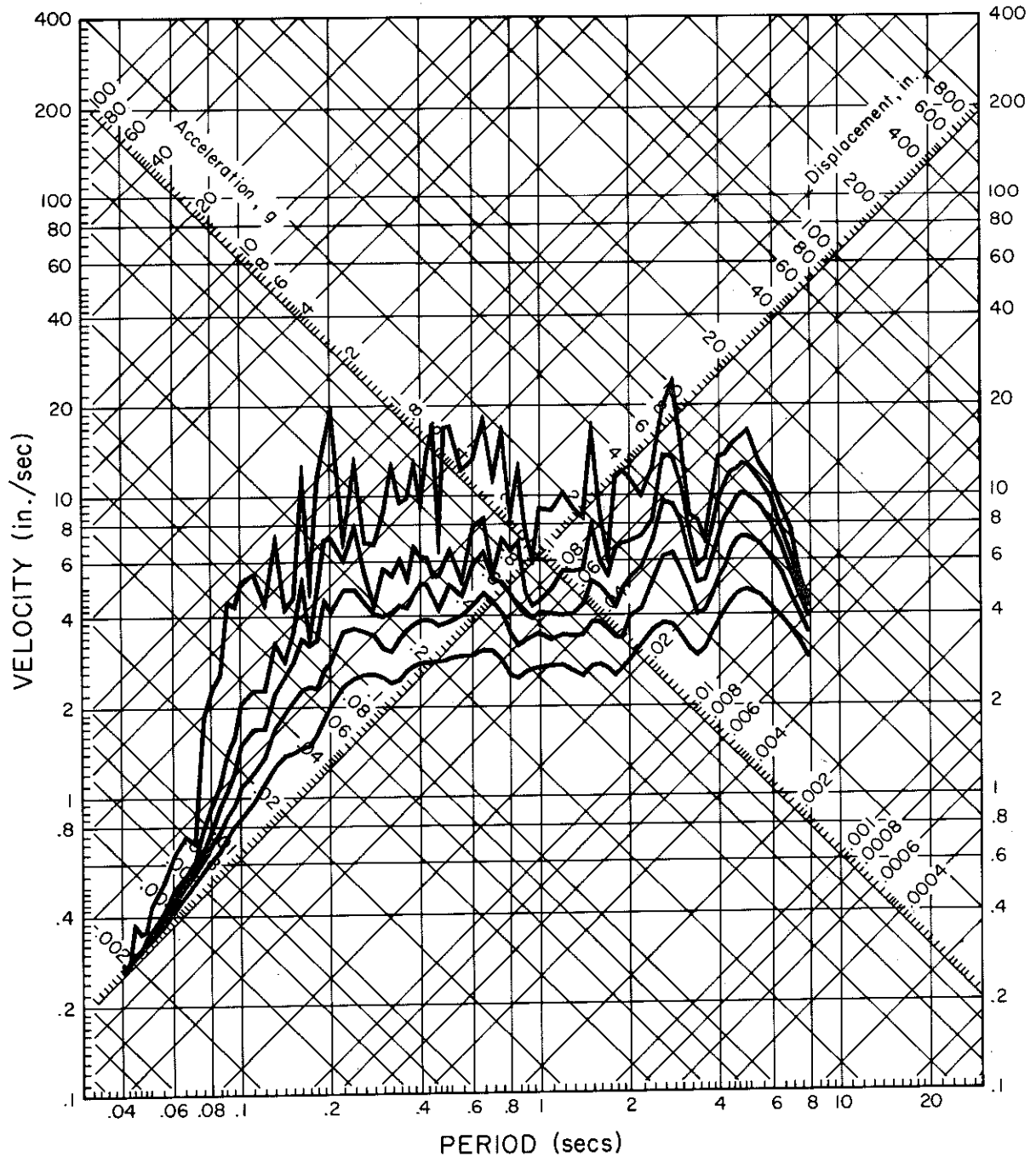


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

11IN186 71.067.0 WHITTIER NARROWS DAM, CAL. COMP S53W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
 I11N186 71.067.0 WHITTIER NARROWS DAM, CAL. COMP S53W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

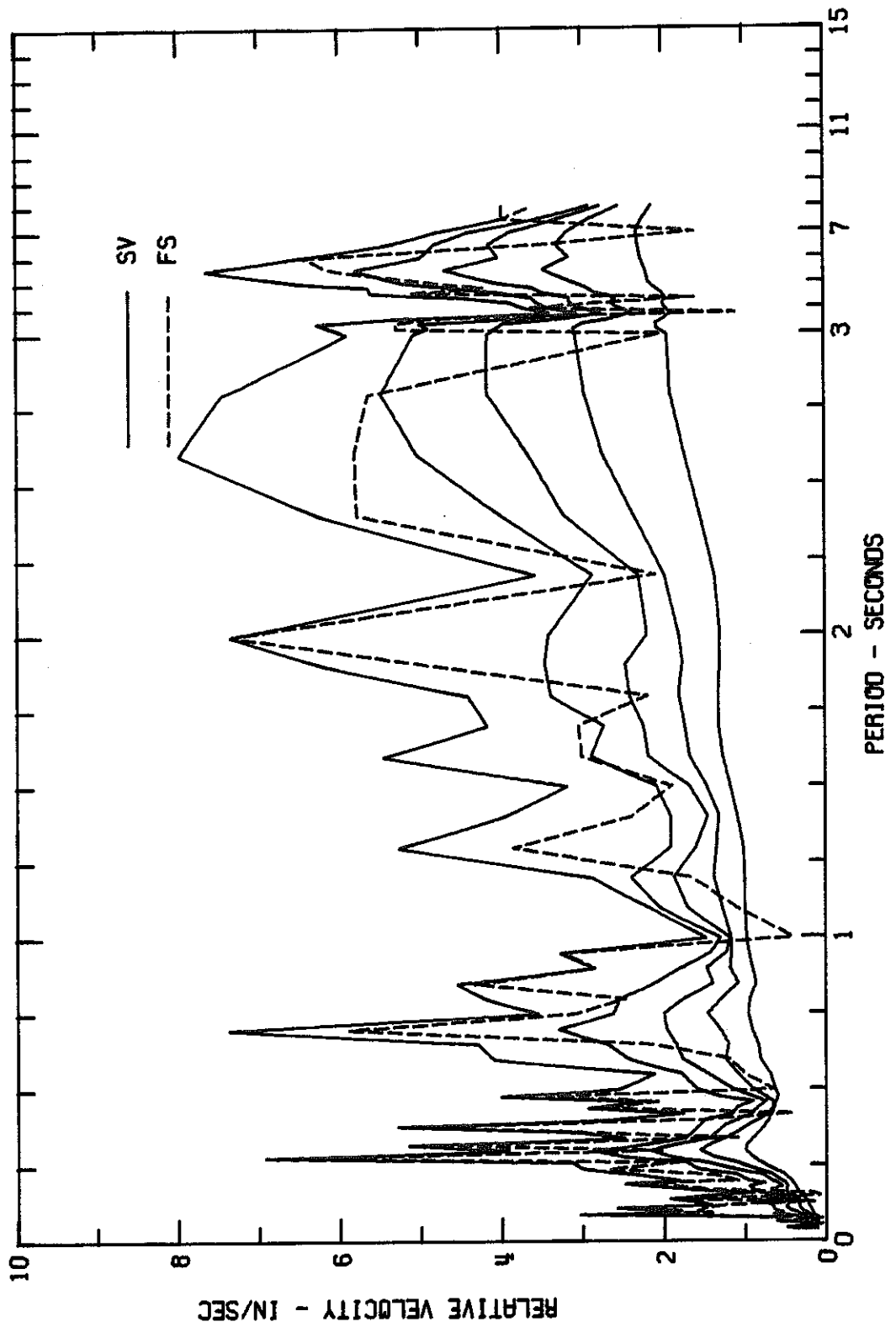
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IIIN186 71.067.0 WHITTIER NARROWS DAM, CAL. COMP S53W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIIN186 71.067.0 WHITTIER NARROWS DAM, CAL. COMP DOWN
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

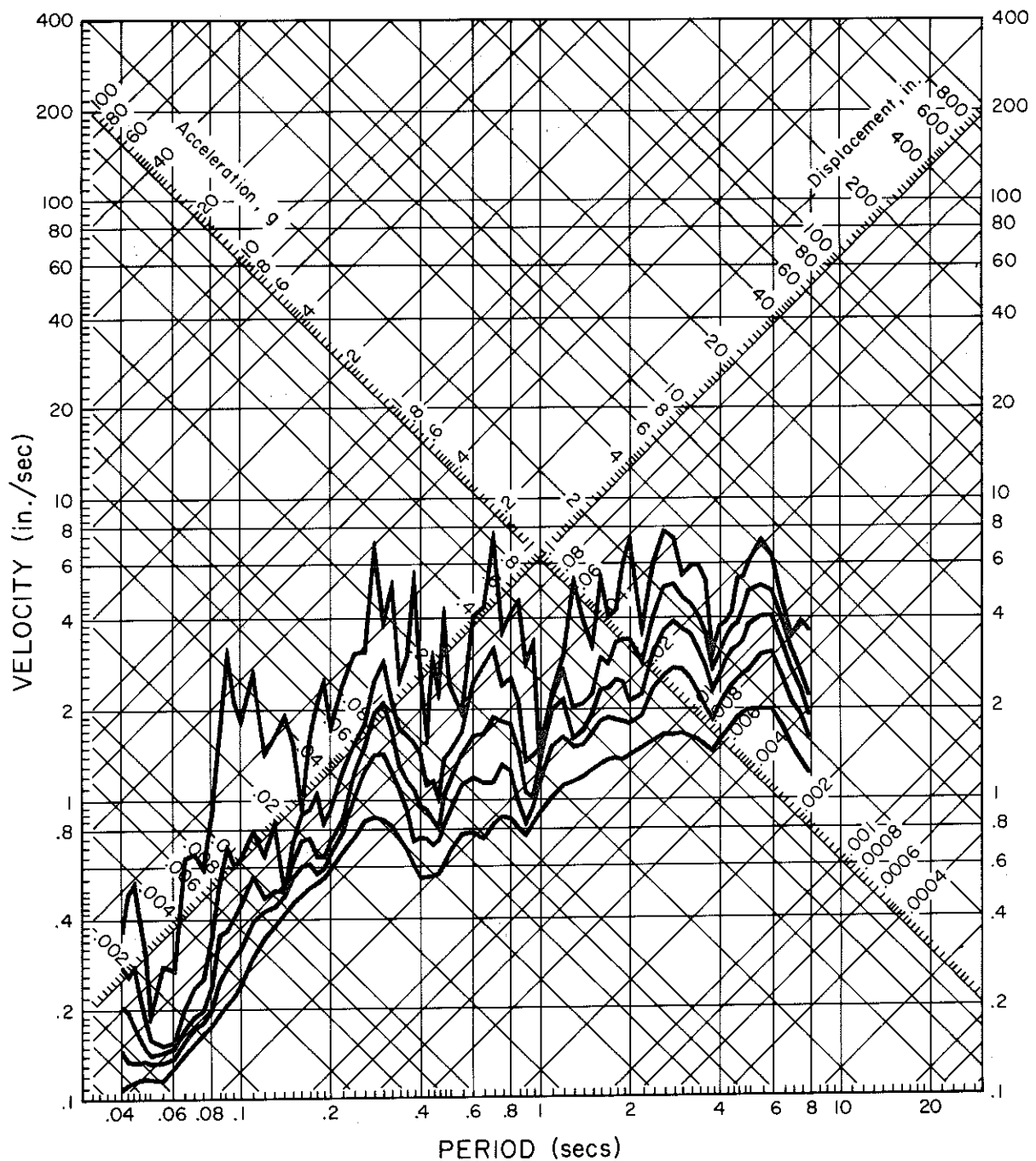


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN186 71.067.0 WHITTIER NARROWS DAM, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN186 71.067.0 WHITTIER NARROWS DAM, CAL. COMP DOWN

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

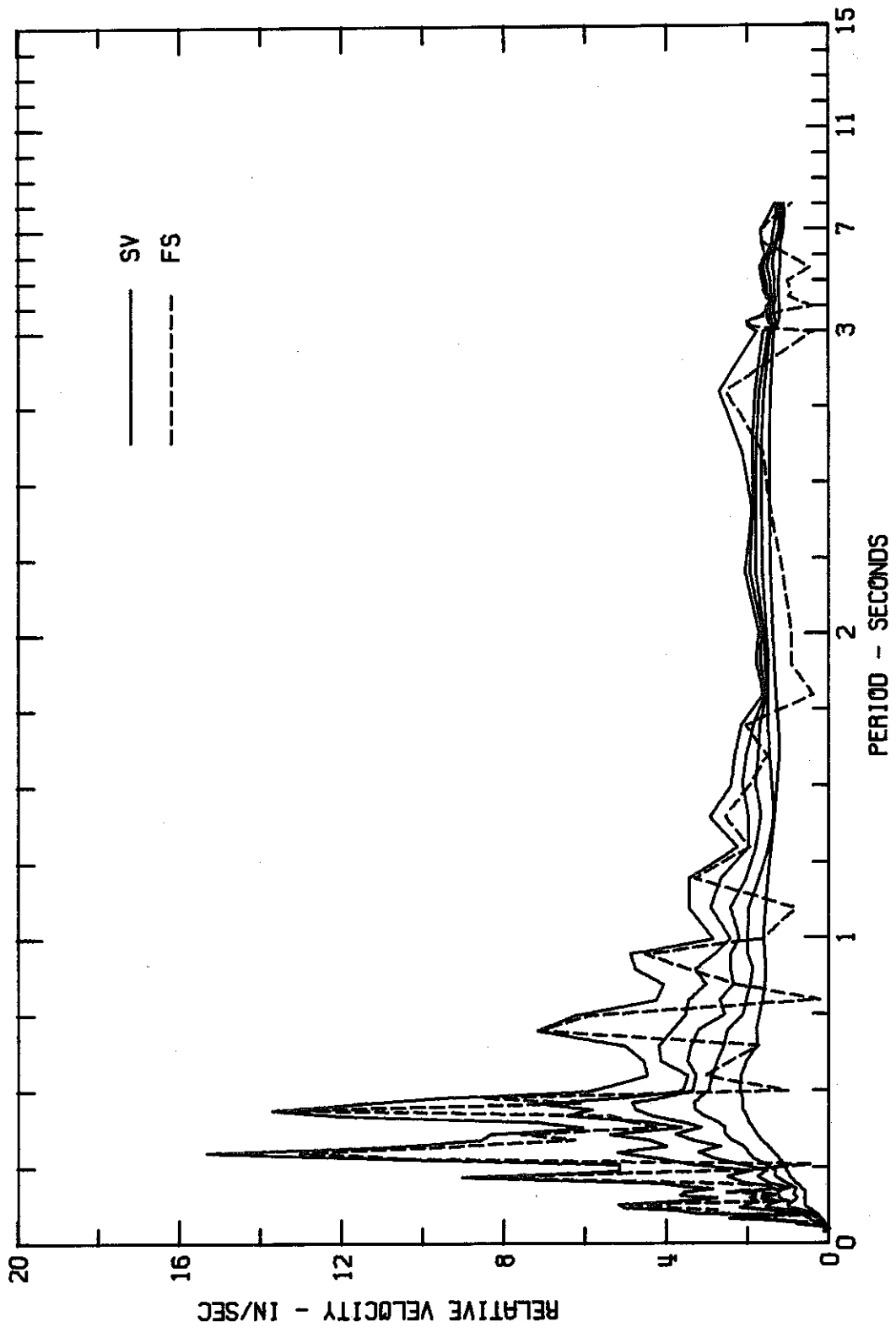
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0.044	475-3	373-5	492-3	197-3	533-3	195-5	256-3	103-3	279-3	124-5	184-3	666-4	178-3	938-6	140-3	486-4	133-3
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DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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0.80	246-2	540-3	419-2	863-4	424-2	326-3	254-2	522-4	256-2	229-3	175-2	369-4	180-2	160-3	129-2	265-4	125-2	111-3	941-3	195-4	872-3
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0.90	285-2	410-3	286-2	518-4	286-2	194-3	178-2	245-4	135-2	152-3	147-2	193-4	106-2	120-3	118-2	155-4	842-3	110-3	911-3	155-4	771-3
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7.50	397-2	473-2	397-2	860-5	396-2	318-2	354-2	579-5	266-2	280-2	329-2	517-5	234-2	229-2	289-2	434-5	192-2	161-2	224-2	357-5	135-2
8.00	359-2	466-2	397-2	745-5	366-2	284-2	290-2	455-5	223-2	245-2	276-2	393-5	192-2	206-2	253-2	353-5	162-2	56-2	213-2	301-5	123-2

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
1111N187 71.068.0 SAN ANTONIO DAM, UPLAND, CAL. COMP N75W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

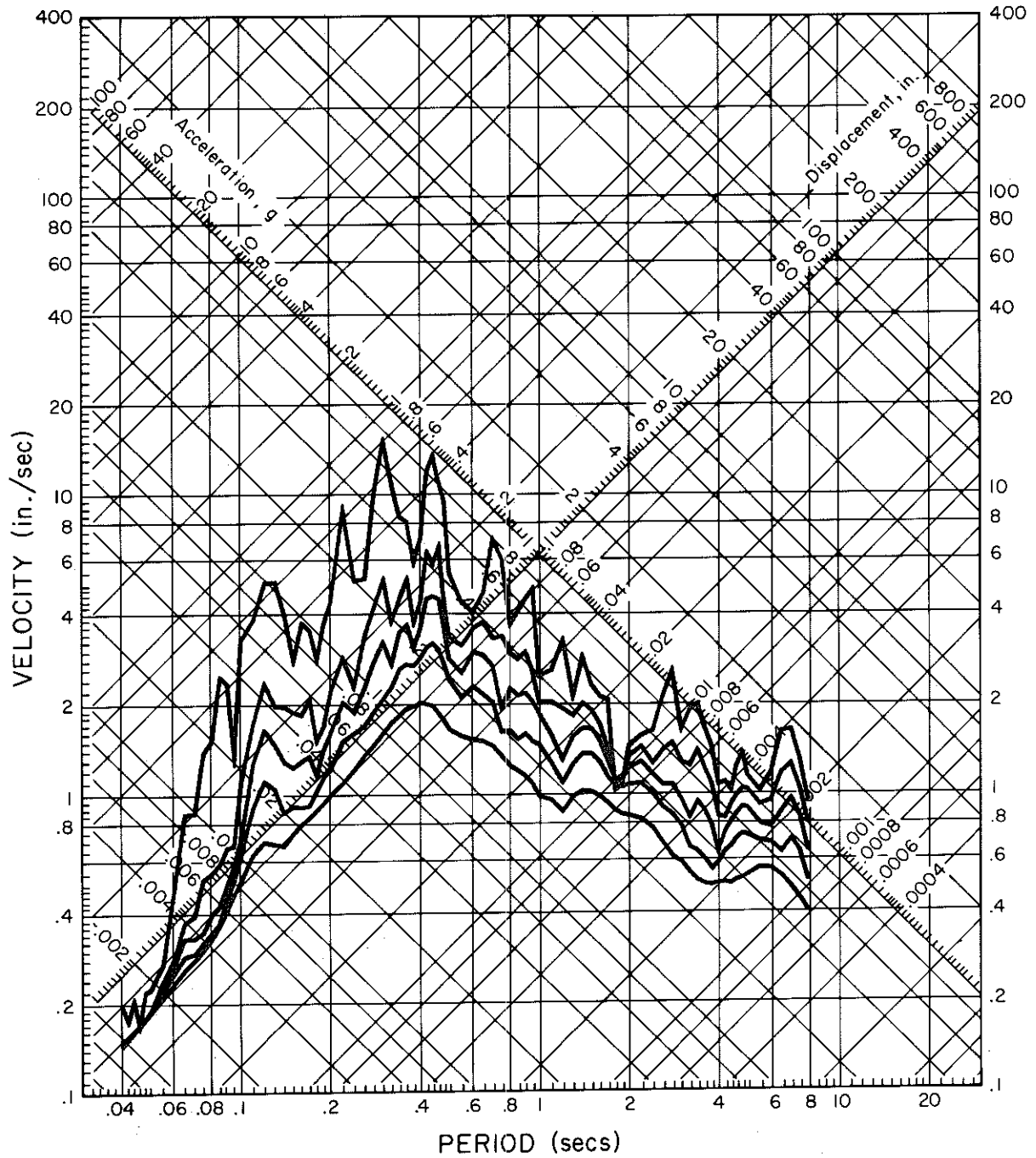


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN187 71.068.0 SAN ANTONIO DAM, UPLAND, CAL. COMP N75W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

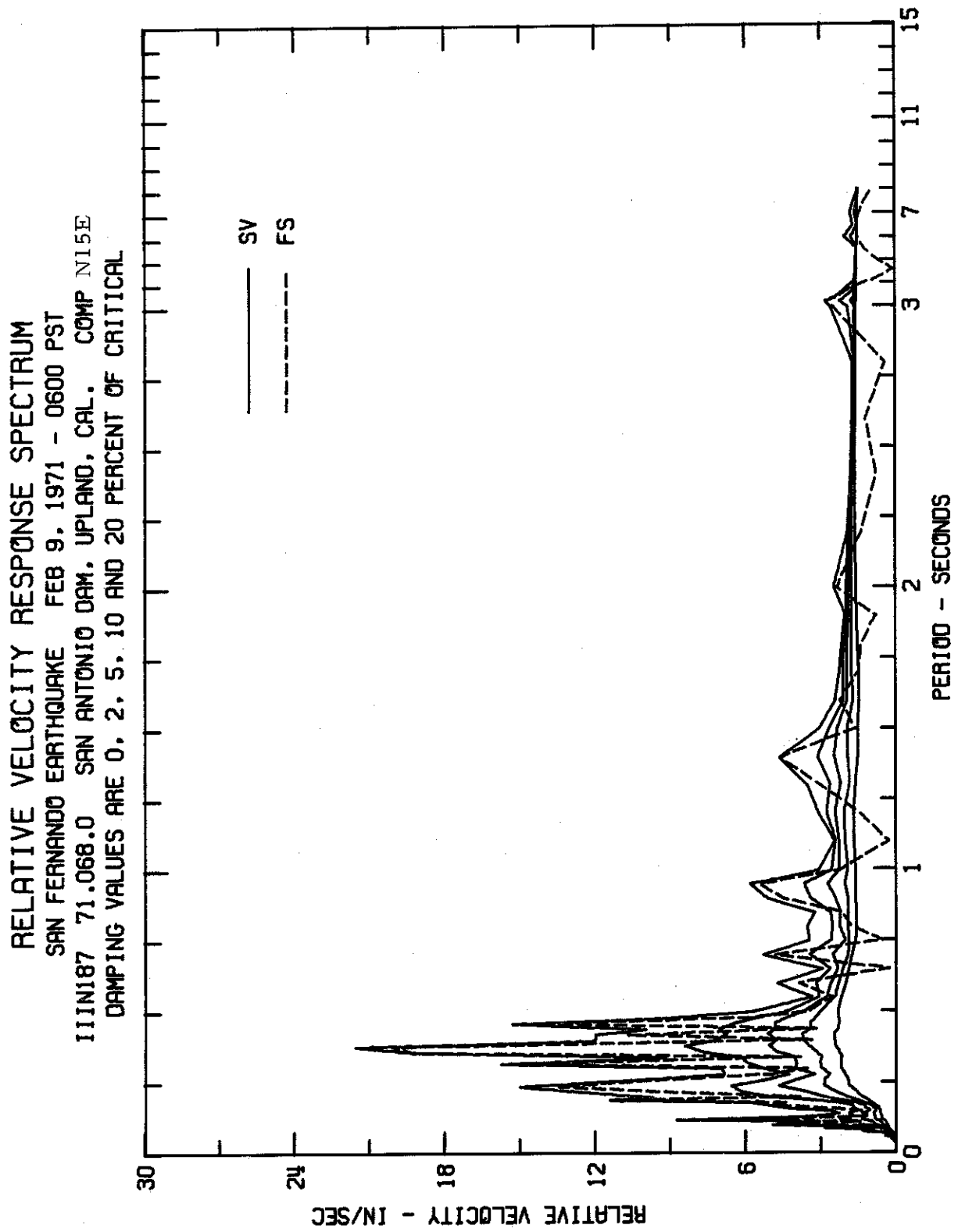


IIIIIN187	71.068.0	SAN ANTONIO DAM, UPLAND, CAL.	COMP N75W
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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0.042	521-4	117-5	673-4	682-4	176-3	101-5	427-4	590-4	152-3	102-5	411-4	593-4	153-3	102-5	400-4	597-4	145-3
0.044	760-4	145-5	110-3	769-4	208-3	113-5	465-4	599-4	162-3	113-5	445-4	600-4	162-3	113-5	444-4	601-4	162-3
0.046	320-4	124-5	884-4	601-4	170-3	125-5	576-4	606-4	171-3	125-5	528-4	605-4	171-3	125-5	492-4	607-4	171-3
0.048	816-4	169-5	128-3	754-4	222-3	136-5	628-4	605-4	178-3	137-5	595-4	610-4	180-3	138-5	547-4	613-4	180-3
0.050	127-4	179-5	123-3	736-4	226-3	152-5	786-4	622-4	191-3	151-5	684-4	622-4	190-3	151-5	613-4	620-4	190-3
0.055	148-3	239-5	171-3	809-4	273-3	210-5	102-3	712-4	240-3	203-5	856-4	688-4	232-3	195-5	802-4	663-4	223-3
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0.065	629-3	903-5	807-3	218-3	873-3	389-5	220-3	947-4	376-3	345-5	174-3	834-4	333-3	300-5	140-3	731-4	290-3
0.070	559-3	975-5	809-3	203-3	875-3	442-5	307-3	918-4	397-3	372-5	202-3	783-4	334-3	331-5	158-3	687-4	297-3
0.075	117-2	167-4	136-2	303-3	140-2	630-5	460-3	114-3	527-3	418-5	281-3	757-4	350-3	386-5	176-3	702-4	323-3
0.080	130-2	196-4	146-2	313-3	153-2	700-5	462-3	112-3	549-3	513-5	285-3	831-4	403-3	444-5	221-3	727-4	348-3
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0.090	215-2	337-4	232-2	426-3	235-2	961-5	581-3	121-3	670-3	722-5	385-3	906-4	504-3	650-5	279-3	825-4	454-3
0.095	277-3	207-4	116-2	235-3	137-2	103-4	557-3	117-3	681-3	892-5	386-3	101-3	590-3	796-5	332-3	916-4	526-3
0.100	310-2	529-4	329-2	541-3	332-2	174-4	826-3	178-3	109-2	112-4	491-3	116-3	706-3	999-5	418-3	102-3	628-3
0.110	274-2	679-4	380-2	574-3	388-2	305-4	152-2	256-3	174-2	226-4	105-2	191-3	129-2	214-4	702-3	141-3	916-3
0.120	409-2	986-4	506-2	700-3	516-2	454-4	221-2	324-3	237-2	316-4	157-2	221-3	165-2	218-4	100-2	154-3	112-2
0.130	502-2	106-3	518-2	647-3	516-2	413-4	194-2	248-3	199-2	306-4	147-2	187-3	148-2	214-4	101-2	131-3	105-2
0.140	985-3	901-4	379-2	470-3	404-2	442-4	178-2	231-3	198-2	289-4	113-2	149-3	129-2	196-4	844-3	102-3	880-3
0.150	197-2	675-4	274-2	307-3	282-2	454-4	193-2	208-3	190-2	297-4	120-2	136-3	124-2	221-4	787-3	101-3	926-3
0.160	125-2	963-4	369-2	384-3	378-2	474-4	182-2	189-3	186-2	332-4	125-2	132-3	130-2	233-4	849-3	949-4	916-3
0.170	252-2	967-4	354-2	342-3	357-2	571-4	199-2	202-3	211-2	367-4	127-2	129-3	135-2	250-4	874-3	896-4	927-3
0.180	903-3	816-4	287-2	257-3	284-2	431-4	135-2	138-3	152-2	335-4	105-2	105-3	116-2	298-4	818-3	947-4	104-2
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0.200	305-2	142-3	416-2	364-3	447-2	708-4	208-2	181-3	222-2	517-4	149-2	134-3	162-2	388-4	107-2	102-3	122-2
0.220	906-2	315-3	906-2	667-3	902-2	101-3	251-2	214-3	290-2	721-4	176-2	153-3	206-2	534-4	132-2	116-3	152-2
0.240	208-2	199-3	515-2	354-3	522-2	881-4	191-2	155-3	230-2	725-4	153-2	131-3	189-2	618-4	133-2	112-3	161-2
0.260	427-3	220-3	516-2	333-3	532-2	142-3	337-2	215-3	343-2	955-4	221-2	145-3	230-2	706-4	159-2	106-3	170-2
0.280	101-1	469-3	105-1	612-3	105-1	191-3	419-2	247-3	428-2	126-3	282-2	163-3	283-2	853-4	187-2	113-3	191-2
0.300	130-1	729-3	153-1	829-3	152-1	251-3	523-2	285-3	527-2	155-3	323-2	175-3	326-2	100-3	201-2	115-3	211-2
0.320	929-2	556-3	109-1	555-3	109-1	194-3	399-2	194-3	381-2	139-3	267-2	138-3	274-2	118-3	210-2	121-3	231-2
0.340	624-2	462-3	855-2	409-3	855-2	246-3	444-2	216-3	455-2	190-3	339-2	168-3	352-2	144-3	243-2	129-3	266-2
0.360	758-2	470-3	832-2	371-3	820-2	303-3	541-2	239-3	530-2	213-3	378-2	170-3	373-2	157-3	257-2	125-3	275-2
0.380	426-2	361-3	605-2	256-3	598-2	228-3	362-2	162-3	378-2	187-3	314-2	134-3	310-2	164-3	256-2	118-3	271-2
0.400	492-2	462-3	719-2	295-3	725-2	283-3	448-2	181-3	445-2	232-3	365-2	150-3	364-2	184-3	277-2	120-3	290-2
0.420	542-2	811-3	120-1	470-3	121-1	434-3	647-2	251-3	650-2	305-3	441-2	177-3	456-2	209-3	311-2	125-3	313-2
0.440	132-1	957-3	137-1	505-3	136-1	415-3	582-2	218-3	592-2	325-3	477-2	171-3	464-2	226-3	331-2	121-3	323-2
0.460	609-2	816-3	115-1	394-3	111-1	497-3	712-2	240-3	679-2	332-3	484-2	161-3	454-2	225-3	332-2	110-3	308-2
0.480	856-2	733-3	956-2	325-3	960-2	339-3	501-2	150-3	444-2	279-3	405-2	124-3	366-2	210-3	316-2	950-4	275-2
0.500	101-2	441-3	586-2	180-3	554-2	269-3	359-2	110-3	338-2	227-3	335-2	942-4	286-2	194-3	296-2	814-4	244-2
0.550	304-2	385-3	447-2	130-3	439-2	278-3	347-2	942-4	318-2	225-3	326-2	761-4	257-2	186-3	287-2	648-4	212-2
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0.650	170-2	493-3	502-2	119-3	477-2	393-3	418-2	958-4	380-2	304-3	338-2	741-4	294-2	225-3	258-2	558-4	217-2
0.700	715-2	801-3	719-2	167-3	719-2	372-3	385-2	778-4	334-2	300-3	320-2	632-4	269-2	229-3	248-2	490-4	205-2

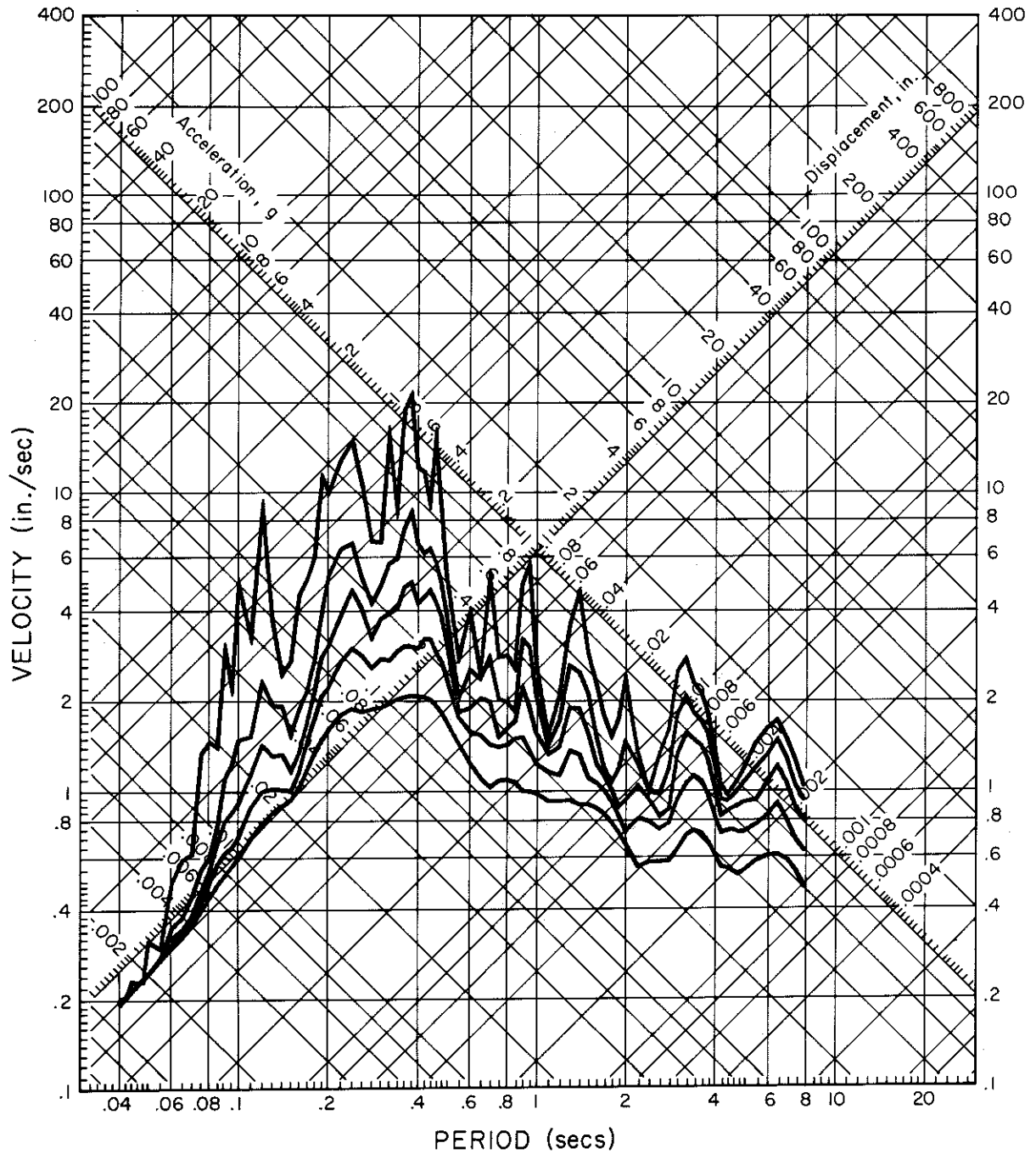


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

11IN187 71.068.0 SAN ANTONIO DAM, UPLAND, CAL. COMP N15E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

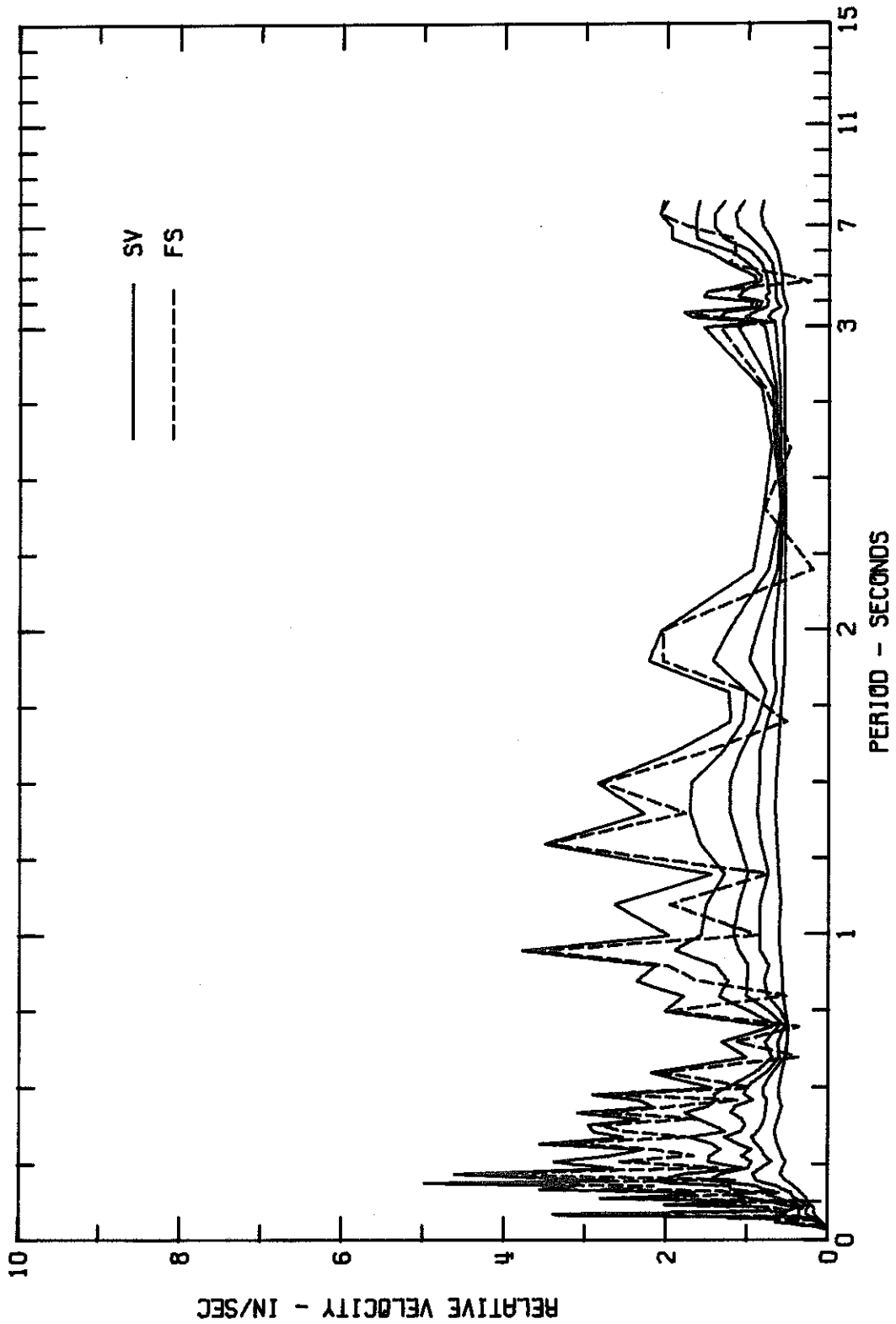


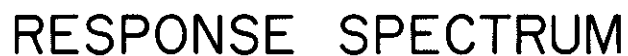
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
 IIN187 71.068.0 SAN ANTONIO DAM, UPLAND, CAL. COMP NISE

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT										DAMPING = 2 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PER CENT										DAMPING = 20 PER CENT									
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV								
0.040	351-4	128-5	625-4	822-4	202-3	123-5	507-4	788-4	193-3	123-5	473-4	791-4	194-3	124-5	462-4	792-4	194-3	123-5	459-4	792-4	194-3	123-5	459-4	792-4	194-3	123-5	459-4	792-4	194-3	123-5	459-4	792-4	194-3	123-5	459-4	792-4	194-3	123-5	459-4	792-4	194-3	123-5	459-4	792-4	194-3				
0.042	194-4	135-5	524-4	787-4	203-3	137-5	496-4	796-4	205-3	137-5	502-4	795-4	205-3	137-5	506-4	794-4	205-3	136-5	507-4	794-4	205-3	136-5	507-4	794-4	205-3	136-5	507-4	794-4	205-3	136-5	507-4	794-4	205-3	136-5	507-4	794-4	205-3	136-5	507-4	794-4	205-3	136-5	507-4	794-4	205-3				
0.044	465-4	162-5	817-4	860-4	232-3	150-5	532-4	796-4	215-3	151-5	541-4	798-4	215-3	151-5	554-4	797-4	215-3	150-5	560-4	796-4	215-3	150-5	560-4	796-4	215-3	150-5	560-4	796-4	215-3	150-5	560-4	796-4	215-3	150-5	560-4	796-4	215-3	150-5	560-4	796-4	215-3	150-5	560-4	796-4	215-3				
0.046	629-4	168-5	938-4	813-4	230-3	166-5	586-4	804-4	227-3	165-5	595-4	801-4	226-3	165-5	609-4	800-4	226-3	165-5	617-4	799-4	226-3	165-5	617-4	799-4	226-3	165-5	617-4	799-4	226-3	165-5	617-4	799-4	226-3	165-5	617-4	799-4	226-3	165-5	617-4	799-4	226-3	165-5	617-4	799-4	226-3				
0.048	132-4	176-5	962-4	785-4	231-3	179-5	643-4	795-4	234-3	180-5	661-4	801-4	233-3	181-5	674-4	803-4	237-3	180-5	679-4	802-4	237-3	180-5	679-4	802-4	237-3	180-5	679-4	802-4	237-3	180-5	679-4	802-4	237-3	180-5	679-4	802-4	237-3	180-5	679-4	802-4	237-3	180-5	679-4	802-4	237-3				
0.050	179-3	251-5	185-3	102-3	316-3	195-5	831-4	800-4	245-3	196-5	769-4	805-4	247-3	196-5	751-4	807-4	247-3	196-5	747-4	807-4	247-3	196-5	747-4	807-4	247-3	196-5	747-4	807-4	247-3	196-5	747-4	807-4	247-3	196-5	747-4	807-4	247-3	196-5	747-4	807-4	247-3	196-5	747-4	807-4	247-3				
0.055	118-3	261-5	162-3	885-4	299-3	244-5	965-4	826-4	279-3	244-5	978-4	827-4	279-3	243-5	969-4	825-4	277-3	240-5	938-4	816-4	274-3	240-5	938-4	816-4	274-3	240-5	938-4	816-4	274-3	240-5	938-4	816-4	274-3	240-5	938-4	816-4	274-3	240-5	938-4	816-4	274-3	240-5	938-4	816-4	274-3				
0.060	429-3	479-5	436-3	136-3	501-3	337-5	126-3	959-4	353-3	311-5	123-3	884-4	326-3	297-5	120-3	846-4	311-3	288-5	115-3	822-4	301-3	288-5	115-3	822-4	301-3	288-5	115-3	822-4	301-3	288-5	115-3	822-4	301-3	288-5	115-3	822-4	301-3	288-5	115-3	822-4	301-3	288-5	115-3	822-4	301-3				
0.065	272-3	615-5	443-3	148-3	594-3	392-5	188-3	949-4	379-3	357-5	145-3	867-4	345-3	346-5	146-3	842-4	334-3	337-5	140-3	826-4	326-3	337-5	140-3	826-4	326-3	337-5	140-3	826-4	326-3	337-5	140-3	826-4	326-3	337-5	140-3	826-4	326-3	337-5	140-3	826-4	326-3	337-5	140-3	826-4	326-3				
0.070	110-3	693-5	444-3	144-3	622-3	501-5	263-3	104-3	450-3	431-5	201-3	899-4	386-3	418-5	190-3	870-4	375-3	400-5	169-3	847-4	359-3	400-5	169-3	847-4	359-3	400-5	169-3	847-4	359-3	400-5	169-3	847-4	359-3	400-5	169-3	847-4	359-3	400-5	169-3	847-4	359-3	400-5	169-3	847-4	359-3				
0.075	905-3	161-4	126-2	293-3	135-2	660-5	379-3	120-3	553-3	556-5	284-3	100-3	466-3	501-5	237-3	908-4	420-3	475-5	199-3	888-4	398-3	475-5	199-3	888-4	398-3	475-5	199-3	888-4	398-3	475-5	199-3	888-4	398-3	475-5	199-3	888-4	398-3	475-5	199-3	888-4	398-3	475-5	199-3	888-4	398-3				
0.080	115-2	187-4	137-2	299-3	147-2	779-5	460-3	124-3	612-3	699-5	324-3	112-3	549-3	635-5	265-3	101-3	499-3	567-5	237-3	932-4	446-3	567-5	237-3	932-4	446-3	567-5	237-3	932-4	446-3	567-5	237-3	932-4	446-3	567-5	237-3	932-4	446-3	567-5	237-3	932-4	446-3	567-5	237-3	932-4	446-3				
0.085	930-3	190-4	135-2	269-3	140-2	103-4	528-3	146-3	767-3	915-5	391-3	130-3	676-3	779-5	325-3	112-3	576-3	665-5	277-3	965-4	492-3	665-5	277-3	965-4	492-3	665-5	277-3	965-4	492-3	665-5	277-3	965-4	492-3	665-5	277-3	965-4	492-3	665-5	277-3	965-4	492-3	665-5	277-3	965-4	492-3				
0.090	245-2	429-4	288-2	542-3	300-2	160-4	872-3	203-3	112-2	114-4	541-3	146-3	800-3	899-5	429-3	115-3	628-3	756-5	313-3	982-4	528-3	756-5	313-3	982-4	528-3	756-5	313-3	982-4	528-3	756-5	313-3	982-4	528-3	756-5	313-3	982-4	528-3	756-5	313-3	982-4	528-3	756-5	313-3	982-4	528-3				
0.095	543-3	338-4	209-2	383-3	223-2	188-4	900-3	213-3	124-2	129-4	704-3	147-3	856-3	991-5	509-3	113-3	655-3	855-5	348-3	100-3	565-3	855-5	348-3	100-3	565-3	855-5	348-3	100-3	565-3	855-5	348-3	100-3	565-3	855-5	348-3	100-3	565-3	855-5	348-3	100-3	565-3	855-5	348-3	100-3	565-3				
0.100	458-2	794-4	495-2	812-3	499-2	238-4	149-2	245-3	149-2	146-4	840-3	152-3	919-3	113-4	541-3	115-3	710-3	892-3	123-4	604-3	704-3	892-3	123-4	604-3	704-3	892-3	123-4	604-3	704-3	892-3	123-4	604-3	704-3	892-3	123-4	604-3	704-3	892-3	123-4	604-3	704-3	892-3	123-4	604-3	704-3				
0.110	159-2	574-4	305-2	485-3	328-2	268-4	144-2	226-3	153-2	201-4	989-3	171-3	115-2	156-4	651-3	135-3	892-3	123-4	604-3	704-3	892-3	123-4	604-3	704-3	892-3	123-4	604-3	704-3	892-3	123-4	604-3	704-3	892-3	123-4	604-3	704-3	892-3	123-4	604-3	704-3	892-3	123-4	604-3	704-3					
0.120	561-2	169-3	880-2	120-2	888-2	447-4	225-2	315-3	234-2	273-4	139-2	194-3	143-2	192-4	868-3	139-3	100-2	149-4	549-3	111-3	784-3	149-4	549-3	111-3	784-3	149-4	549-3	111-3	784-3	149-4	549-3	111-3	784-3	149-4	549-3	111-3	784-3	149-4	549-3	111-3	784-3	149-4	549-3	111-3	784-3				
0.130	119-2	772-4	351-2	467-3	373-2	403-4	170-2	244-3	195-2	273-4	123-2	167-3	132-2	228-4	904-3	121-3	102-2	200-4	643-3	108-3	899-3	200-4	643-3	108-3	899-3	200-4	643-3	108-3	899-3	200-4	643-3	108-3	899-3	200-4	643-3	108-3	899-3	200-4	643-3	108-3	899-3	200-4	643-3	108-3	899-3				
0.140	117-2	548-4	227-2	286-3	246-2	429-4	191-2	224-3	192-2	297-4	134-2	154-3	133-2	228-4	904-3	121-3	102-2	200-4	643-3	108-3	899-3	200-4	643-3	108-3	899-3	200-4	643-3	108-3	899-3	200-4	643-3	108-3	899-3	200-4	643-3	108-3	899-3	200-4	643-3	108-3	899-3	200-4	643-3	108-3	899-3				
0.150	142-2	656-4	268-2	298-3	274-2	367-4	150-2	166-3	154-2	279-4	106-2	129-3	117-2	241-4	821-3	112-3	101-2	226-4	664-3	108-3	946-3	226-4	664-3	108-3	946-3	226-4	664-3	108-3	946-3	226-4	664-3	108-3	946-3	226-4	664-3	108-3	946-3	226-4	664-3	108-3	946-3	226-4	664-3	108-3	946-3				
0.160	283-2	116-3	431-2	466-3	458-2	485-4	170-2	194-3	190-2	349-4	117-2	138-3	137-2	301-4	885-3	122-3	118-2	266-4	710-3	104-2	104-2	266-4	710-3	104-2	104-2	266-4	710-3	104-2	104-2	266-4	710-3	104-2	104-2	266-4	710-3	104-2	104-2	266-4	710-3										

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
1111187 71.068.0 SAN ANTONIO DAM, UPLAND, CAL. COMP DOWN
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL





SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN187 71.068.0 SAN ANTONIO DAM, UPLAND, CAL. CUMP DOWN

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	341-4	593-6	574-4	379-4	931-4	554-6	415-4	355-4	870-4	498-6	367-4	320-4	782-4	476-6	334-4	305-4	748-4
0.042	811-4	964-6	101-3	559-4	144-3	551-6	388-4	319-4	825-4	539-6	373-4	313-4	807-4	541-6	362-4	313-4	809-4
0.044	793-4	938-6	100-3	495-4	134-3	632-6	432-4	333-4	903-4	620-6	400-4	329-4	886-4	615-6	390-4	324-4	878-4
0.046	163-3	136-5	169-3	660-4	186-3	757-6	507-4	367-4	103-3	700-6	440-4	339-4	956-4	693-6	422-4	334-4	947-4
0.048	139-3	144-5	150-3	642-4	189-3	950-6	707-4	423-4	124-3	846-6	530-4	376-4	110-3	777-6	458-4	345-4	101-3
0.050	820-4	277-5	320-3	113-3	348-3	111-5	880-4	456-4	139-3	966-6	566-4	396-4	121-3	859-6	499-4	349-4	101-3
0.055	411-3	387-5	441-3	130-3	442-3	132-5	118-3	448-4	151-3	110-5	806-4	373-4	126-3	105-5	654-4	354-4	120-3
0.060	533-3	642-5	654-3	182-3	672-3	165-5	137-3	472-4	173-3	155-5	104-3	444-4	162-3	143-5	884-4	406-4	150-3
0.065	425-3	664-5	595-3	160-3	642-3	249-5	179-3	603-4	241-3	197-5	147-3	482-4	190-3	181-5	122-3	447-4	175-3
0.070	204-3	724-5	637-5	151-3	650-3	397-5	310-3	829-4	356-3	281-5	208-3	591-4	252-3	226-5	151-3	477-4	202-3
0.075	121-2	151-4	125-2	275-3	126-2	483-5	338-3	882-4	405-3	358-5	242-3	647-4	299-3	283-5	191-3	524-4	237-3
0.080	326-3	129-4	964-3	206-3	101-2	688-5	485-3	110-3	541-3	524-5	345-3	839-4	411-3	361-5	228-3	594-4	283-3
0.085	311-2	452-4	333-2	640-3	334-2	881-5	556-3	125-3	651-3	618-5	365-3	868-4	457-3	426-5	256-3	613-4	315-3
0.090	336-2	491-4	340-2	620-3	342-2	981-5	641-3	918-4	684-3	626-5	362-3	790-4	424-3	489-5	279-3	589-4	323-3
0.095	121-2	207-4	136-2	235-3	137-2	806-5	518-3	124-3	533-3	641-5	366-3	726-4	424-3	489-5	279-3	589-4	323-3
0.100	481-3	107-4	700-3	109-3	675-3	901-5	477-3	922-4	566-3	677-5	363-3	684-4	425-3	495-5	270-3	522-4	311-3
0.110	701-3	136-4	752-3	115-3	781-3	665-5	354-3	564-4	379-3	595-5	300-3	509-4	339-3	483-5	249-3	422-4	276-3
0.120	198-2	389-4	203-2	276-3	203-2	113-4	582-3	811-4	594-3	817-5	380-3	579-4	427-3	632-5	289-3	452-4	331-3
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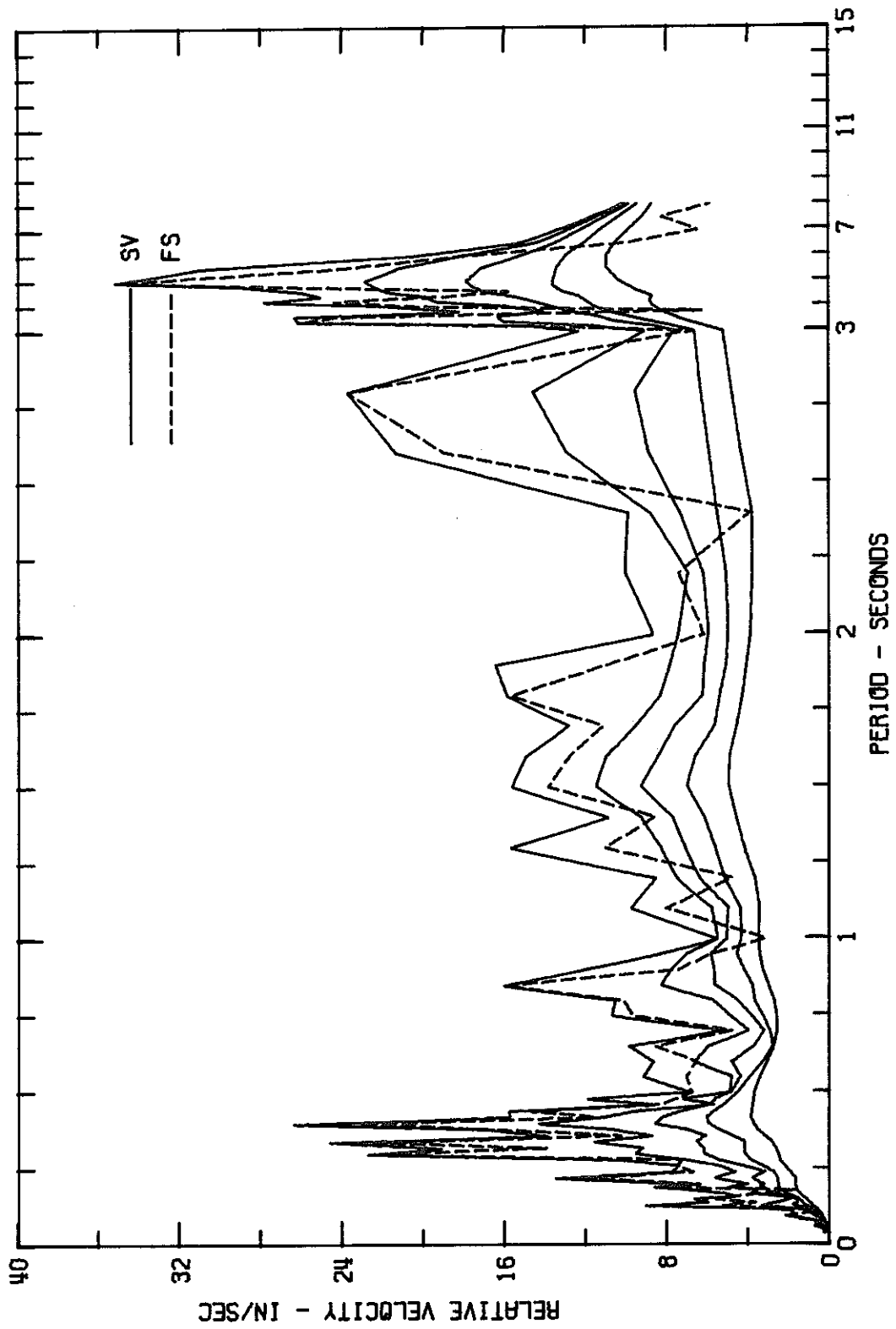
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IIIN187 71.068.0 SAN ANTONIO DAM, UPLAND, CAL. COMP DOWN

THE UNITS USED ARE SEC FOR PEK, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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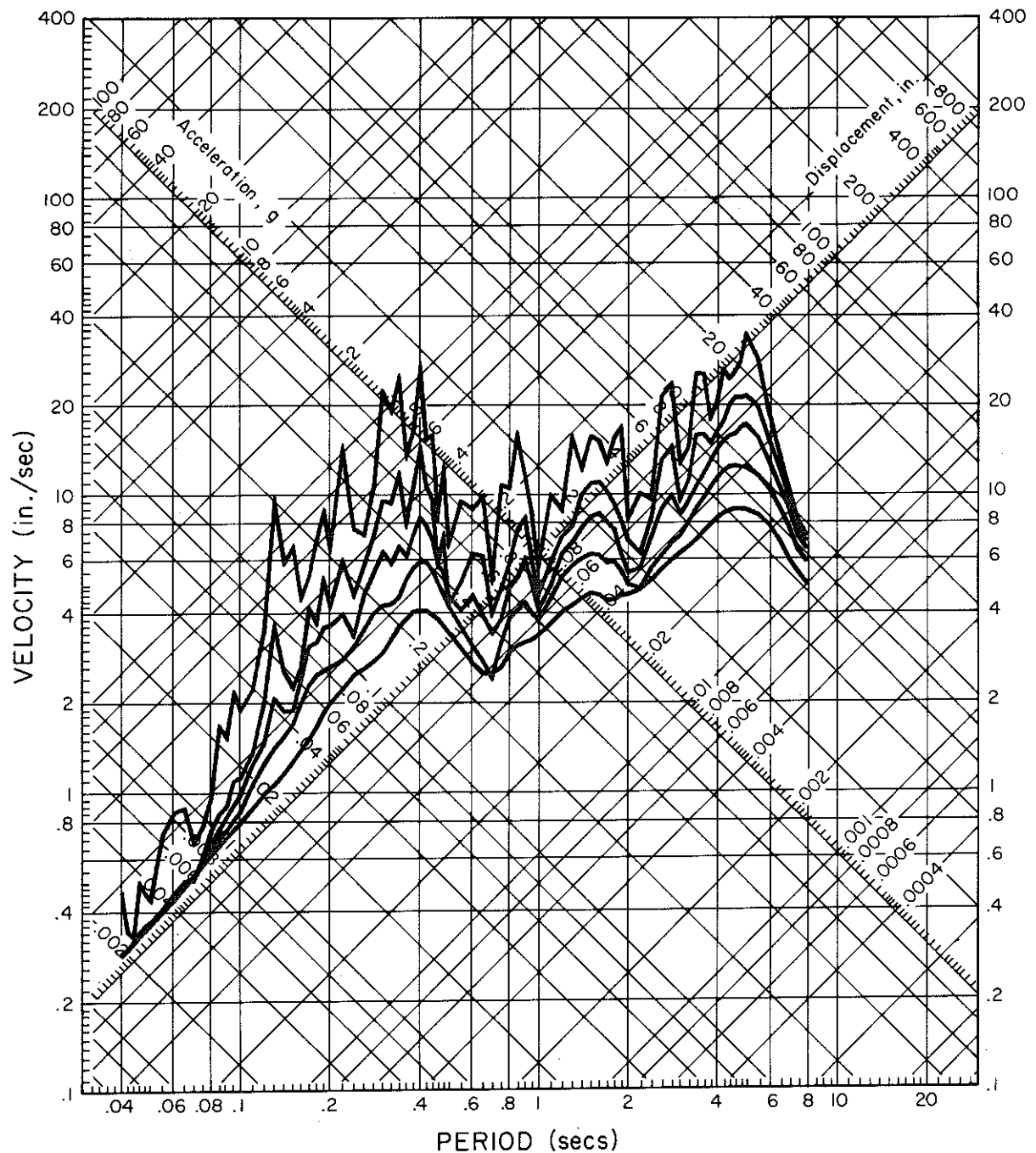


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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



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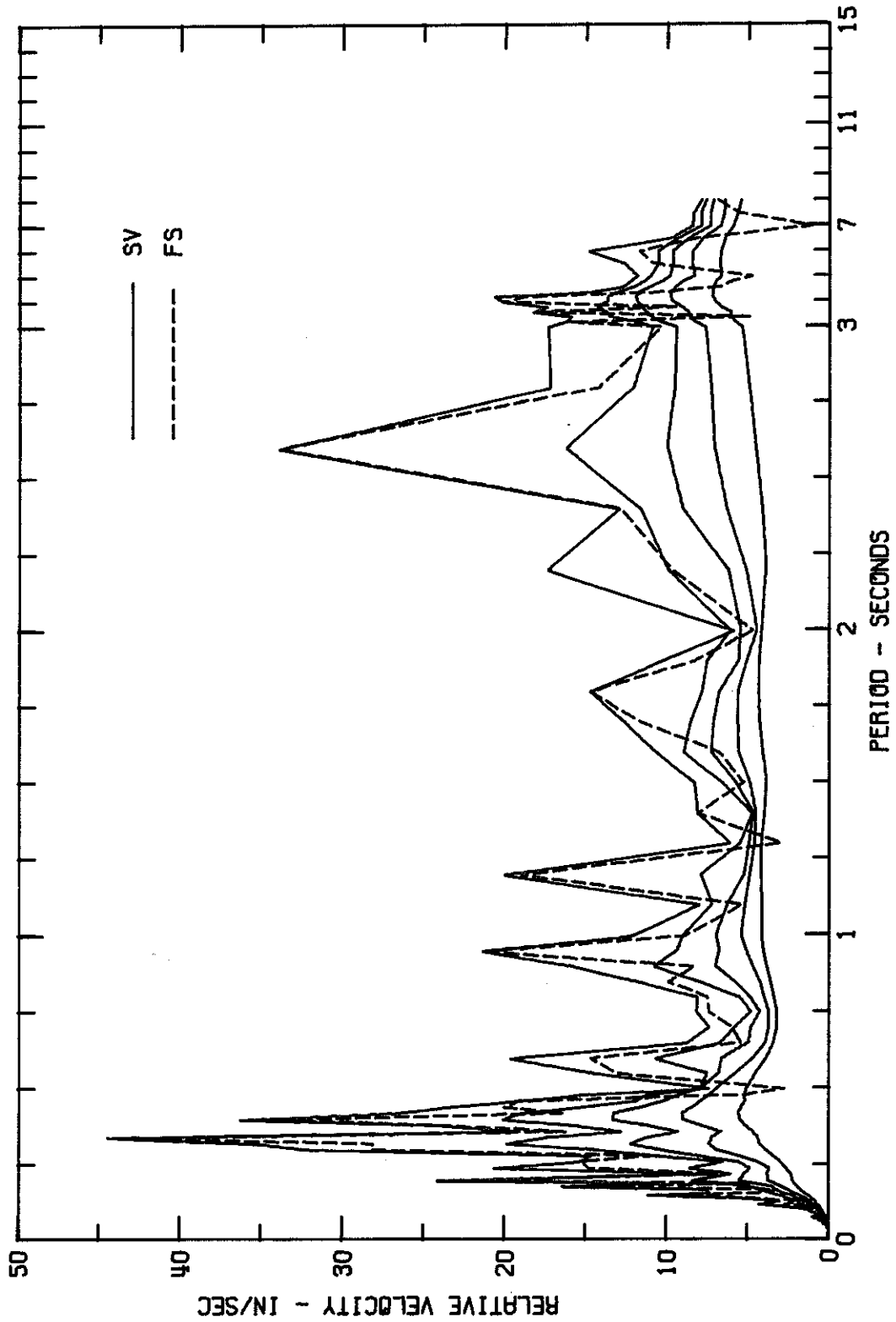
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0.240	671-2	298-3	775-2	529-3	780-2	179-3	460-2	319-3	469-2	130-3	318-2	234-3	341-2	119-3	274-2	211-3	313-2
0.260	746-2	308-3	742-2	467-3	746-2	246-3	545-2	372-3	595-2	196-3	432-2	300-3	474-2	149-3	335-2	233-3	360-2
0.280	728-2	485-3	102-1	633-3	108-1	334-3	697-2	436-3	751-2	250-3	551-2	325-3	561-2	181-3	389-2	244-3	407-2
0.300	227-1	108-2	227-1	122-2	226-1	466-3	959-2	531-3	976-2	313-3	619-2	356-3	598-2	222-3	420-2	226-3	437-2
0.320	139-1	992-3	190-1	990-3	194-1	486-3	922-2	486-3	955-2	304-3	620-2	309-3	598-2	222-3	420-2	226-3	437-2
0.340	224-1	135-2	246-1	119-2	250-1	645-3	116-1	573-3	119-1	370-3	652-2	329-3	683-2	249-3	421-2	226-3	437-2
0.360	102-1	792-3	138-1	625-3	138-1	667-3	869-2	370-3	816-2	362-3	611-2	289-3	631-2	305-3	482-2	243-3	532-2
0.380	162-1	102-2	167-1	724-3	169-1	664-3	107-1	473-3	109-1	454-3	710-2	321-3	751-2	351-3	548-2	254-3	581-2
0.400	231-1	170-2	264-1	108-2	267-1	923-3	143-1	591-3	145-1	545-3	860-2	349-3	856-2	387-3	597-2	255-3	609-2
0.420	115-1	104-2	156-1	605-3	156-1	605-3	110-1	419-3	108-1	531-3	819-2	311-3	795-2	404-3	606-2	238-3	605-2
0.440	146-1	113-2	157-1	597-3	161-1	686-3	957-2	362-3	980-2	501-3	724-2	267-3	716-2	396-3	565-2	212-3	566-2
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0.480	737-2	927-3	119-1	411-3	121-1	558-3	722-2	247-3	731-2	424-3	563-2	190-3	556-2	360-3	485-2	142-3	449-2
0.500	674-2	552-3	684-2	226-3	694-2	346-3	485-2	141-3	435-2	370-3	482-2	151-3	465-2	339-3	449-2	162-3	427-2
0.550	707-2	848-3	917-2	286-3	969-2	454-3	482-2	153-3	519-2	363-3	438-2	124-3	414-2	318-3	391-2	110-3	364-2
0.600	652-2	867-3	866-2	246-3	908-2	616-3	667-2	175-3	645-2	447-3	480-2	128-3	469-2	298-3	327-2	864-4	312-2
0.650	856-2	103-2	987-2	251-3	100-1	654-3	594-2	158-3	632-2	413-3	371-2	100-3	399-2	288-3	278-2	709-4	278-2
0.700	477-2	600-3	528-2	125-3	539-2	450-3	399-2	940-4	404-2	385-3	320-2	810-4	346-2	272-3	295-2	575-4	244-2

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

THE UNITS USED ARE SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT								
	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV				
0.75	969-2	130-2	107-1	237-3	109-1	589-3	493-2	107-3	493-2	465-3	384-2	849-4	390-2	384-3	331-2	706-4	322-2	317-3	260-2	638-4	265-2
0.80	101-1	136-2	105-1	217-3	106-1	767-3	602-2	122-3	602-2	631-3	452-2	101-3	495-2	498-3	371-2	811-4	391-2	377-3	273-2	652-4	296-2
0.85	160-1	217-2	160-1	308-3	160-1	105-2	781-2	150-3	781-2	729-3	565-2	103-3	539-2	561-3	380-2	814-4	415-2	424-3	302-2	658-4	314-2
0.90	743-2	170-2	120-1	214-3	118-1	122-2	779-2	154-3	853-2	887-3	570-2	112-3	619-2	632-3	422-2	823-4	441-2	461-3	331-2	646-4	322-2
0.95	582-2	134-2	829-2	152-3	890-2	942-3	701-2	106-3	823-2	779-3	586-2	887-4	515-2	613-3	433-2	718-4	405-2	498-3	347-2	623-4	329-2
1.00	310-2	921-3	548-2	942-4	578-2	746-3	548-2	764-4	469-2	660-3	505-2	676-4	414-2	614-3	433-2	635-4	386-2	545-3	350-2	601-4	342-2
1.10	805-2	177-2	978-2	149-3	101-1	106-2	581-2	897-4	606-2	884-3	498-2	749-4	505-2	800-3	443-2	687-4	457-2	659-3	347-2	589-4	376-2
1.20	476-2	171-2	852-2	122-3	900-2	140-2	754-2	100-3	737-2	123-2	643-2	881-4	646-2	103-2	517-2	748-4	541-2	783-3	371-2	596-4	410-2
1.30	110-1	326-2	157-1	191-3	157-1	165-2	833-2	999-4	798-2	146-2	713-2	888-4	706-2	121-2	566-2	749-4	588-2	895-3	423-2	580-4	432-2
1.40	854-2	276-2	108-1	144-3	174-3	124-1	929-2	119-3	102-1	176-2	772-2	922-4	791-2	139-2	618-2	753-4	623-2	102-2	461-2	550-4	458-2
1.50	138-1	382-2	156-1	173-3	160-1	265-2	115-1	120-3	111-1	205-2	931-2	935-4	859-2	154-2	702-2	719-4	846-2	113-2	496-2	554-4	474-2
1.60	128-1	391-2	149-1	156-3	153-1	285-2	109-1	114-3	112-1	224-2	841-2	900-4	880-2	162-2	659-2	666-4	637-2	119-2	490-2	532-4	469-2
1.70	111-1	352-2	128-1	124-3	130-1	280-2	948-2	299-4	103-1	221-2	758-2	787-4	820-2	162-2	563-2	588-4	602-2	121-2	452-2	444-4	448-2
1.80	157-1	454-2	159-1	143-3	158-1	268-2	831-2	849-4	937-2	221-2	621-2	703-4	772-2	173-2	538-2	557-4	603-2	129-2	424-2	444-4	452-2
1.90	109-1	517-2	164-1	146-3	171-1	249-2	781-2	708-4	826-2	192-2	615-2	550-4	636-2	169-2	507-2	494-4	561-2	140-2	405-2	424-4	465-2
2.00	617-2	267-2	864-2	684-4	840-2	226-2	741-2	580-4	713-2	177-2	594-2	455-4	556-2	161-2	499-2	427-4	507-2	149-2	386-2	412-4	471-2
2.20	742-2	359-2	100-1	760-4	102-1	226-2	695-2	278-4	646-2	202-2	622-2	429-4	577-2	173-2	509-2	375-4	494-2	171-2	376-2	394-4	490-2
2.40	389-2	373-2	991-2	662-4	976-2	325-2	885-2	579-4	853-2	281-2	739-2	502-4	736-2	221-2	553-2	403-4	579-2	202-2	383-2	393-4	528-2
2.60	190-1	907-2	213-1	137-3	219-1	554-2	129-1	839-4	133-1	379-2	895-2	576-4	917-2	265-2	595-2	414-4	640-2	237-2	437-2	397-4	574-2
2.80	237-1	106-1	237-1	139-3	239-1	657-2	146-1	857-4	147-1	449-2	958-2	589-4	100-1	312-2	635-2	421-4	700-2	274-2	482-2	400-4	615-2
3.00	669-2	621-2	123-1	706-4	130-1	466-2	907-2	529-4	976-2	417-2	761-2	475-4	874-2	356-2	666-2	421-4	747-2	311-2	525-2	399-4	651-2
3.20	147-1	750-2	147-1	749-4	147-1	580-2	116-1	580-4	114-1	496-2	870-2	497-4	974-2	421-2	776-2	426-4	827-2	348-2	621-2	684-2	721-2
3.40	261-1	141-1	261-1	125-3	261-1	875-2	160-1	775-4	161-1	589-2	106-1	524-4	108-1	496-2	894-2	450-4	918-2	390-2	704-2	393-4	721-2
3.60	243-1	148-1	263-1	117-3	259-1	928-2	163-1	733-4	162-1	689-2	114-1	546-4	120-1	572-2	998-2	461-4	999-2	441-2	771-2	386-4	769-2
3.80	626-2	111-1	181-1	787-4	183-1	915-2	140-1	648-4	151-1	805-2	127-1	573-4	133-1	657-2	109-1	474-4	108-1	491-2	829-2	377-4	813-2
4.00	200-1	134-1	217-1	857-4	210-1	106-1	159-1	679-4	166-1	922-2	138-1	592-4	144-1	741-2	116-1	481-4	116-1	542-2	868-2	373-4	851-2
4.20	244-1	179-1	278-1	104-3	268-1	120-1	194-1	697-4	179-1	103-1	146-1	602-4	154-1	819-2	119-1	484-4	122-1	589-2	884-2	371-4	881-2
4.40	189-1	174-1	250-1	922-4	249-1	142-1	199-1	756-4	204-1	112-1	155-1	597-4	160-1	882-2	123-1	476-4	126-1	631-2	875-2	364-4	901-2
4.60	157-1	194-1	260-1	940-4	265-1	158-1	218-1	768-4	217-1	119-1	170-1	580-4	162-1	926-2	131-1	458-4	126-1	666-2	940-2	353-4	910-2
4.80	269-1	219-1	288-1	975-4	287-1	163-1	225-1	727-4	214-1	130-1	176-1	583-4	171-1	961-2	136-1	433-4	125-1	696-2	994-2	341-4	911-2
5.00	351-1	279-1	351-1	114-3	351-1	175-1	228-1	711-4	200-1	137-1	179-1	573-4	175-1	998-2	136-1	419-4	125-1	721-2	103-1	325-4	906-2
5.50	242-1	253-1	309-1	856-4	289-1	175-1	211-1	593-4	218-1	130-1	170-1	468-4	157-1	102-1	134-1	358-4	117-1	763-2	109-1	281-4	872-2
6.00	178-1	181-1	203-1	515-4	190-1	147-1	180-1	418-4	154-1	124-1	151-1	355-4	130-1	100-1	129-1	296-4	105-1	765-2	109-1	244-4	801-2
6.50	981-2	144-1	151-1	349-4	139-1	129-1	143-1	312-4	124-1	111-1	134-1	271-4	107-1	946-2	120-1	237-4	915-2	734-2	105-1	205-4	709-2
7.00	646-2	117-1	134-1	245-4	105-1	110-1	129-1	230-4	991-2	100-1	122-1	213-4	906-2	877-2	113-1	188-4	788-2	683-2	991-2	169-4	613-2
7.50	827-2	996-2	117-1	181-4	835-2	941-2	114-1	171-4	788-2	877-2	110-1	161-4	735-2	788-2	103-1	159-4	660-2	663-2	921-2	154-4	555-2
8.00	588-2	939-2	101-1	150-4	738-2	902-2	100-1	144-4	708-2	850-2	985-2	137-4	667-2	771-2	947-2	136-4	606-2	650-2	873-2	139-4	511-2

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111188 71.084.0 1880 CENTURY PARK EAST, PARKING, 1ST LEVEL, LOS ANGELES, CAL. COMP N36W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

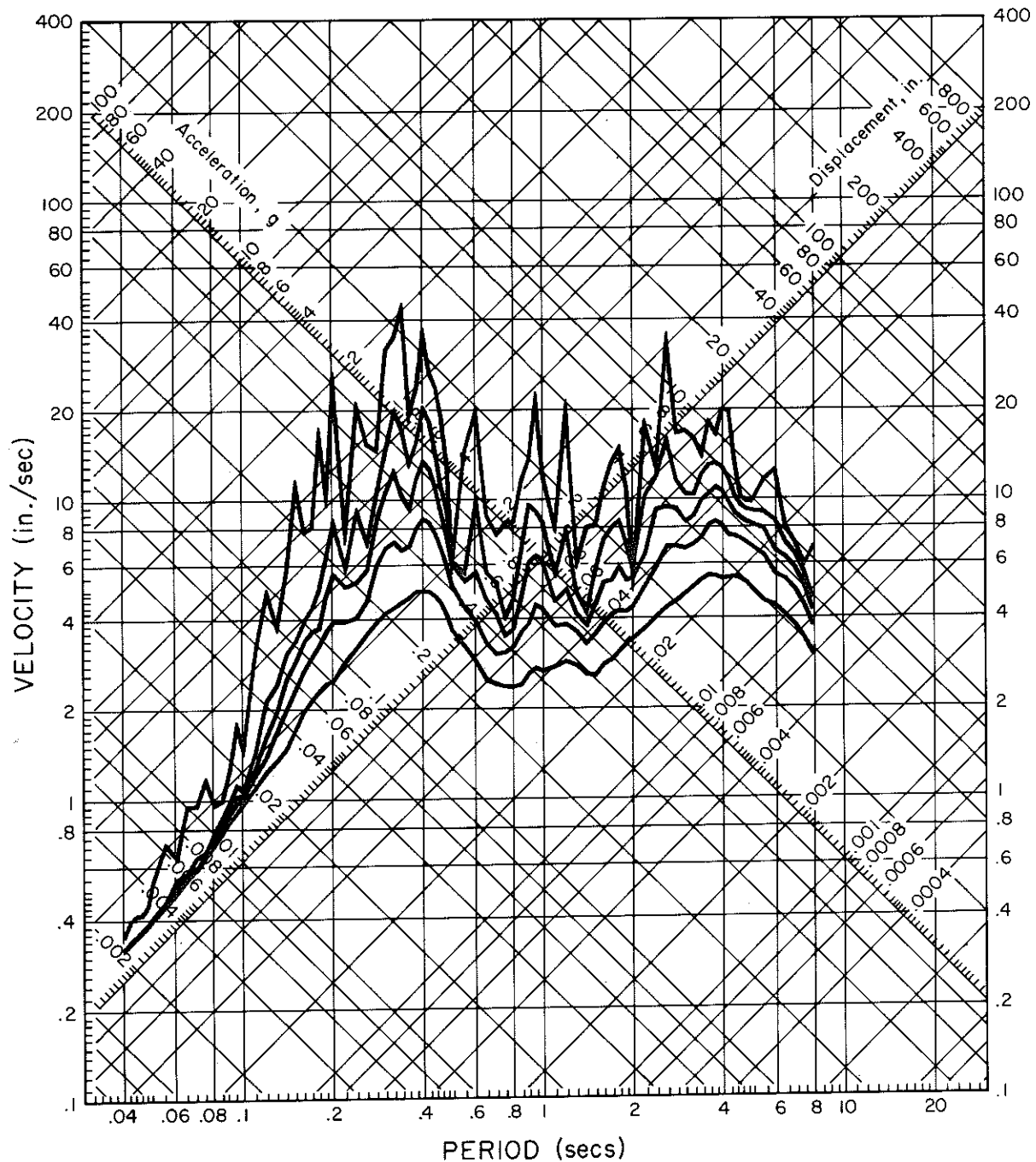


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

11IN188 71.084.0 1880 CENTURY PARK EAST, PARKING, 1ST LEVEL, LOS ANGELES, CAL. COMP N36W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IIIN188 71.084.0 1880 CENTURY PARK EAST, PARKING, 1ST LEVEL, LOS ANGELES, CAL. COMP N36W
 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FUR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	425-4	225-5	951-4	143-3	353-3	202-5	722-4	129-3	317-3	203-5	699-4	130-3	319-3	203-5	639-4	130-3	320-3	203-5	571-4	130-3	320-3
0.042	941-4	266-5	129-3	154-3	398-3	228-5	835-4	132-3	341-3	226-5	759-4	131-3	338-3	225-5	691-4	130-3	336-3	224-5	623-4	130-3	336-3
0.044	358-4	291-5	120-3	154-3	416-3	249-5	899-4	131-3	355-3	248-5	834-4	131-3	354-3	247-5	749-4	130-3	352-3	246-5	684-4	130-3	352-3
0.046	102-3	307-5	189-3	148-3	419-3	272-5	101-3	131-3	371-3	270-5	882-4	130-3	369-3	269-5	783-4	130-3	368-3	269-5	749-4	130-3	368-3
0.048	102-3	342-5	164-3	151-3	448-3	296-5	102-3	131-3	388-3	295-5	879-4	131-3	387-3	295-5	815-4	131-3	386-3	294-5	819-4	131-3	384-3
0.050	142-3	430-5	227-3	176-3	541-3	327-5	105-3	133-3	411-3	321-5	903-4	131-3	404-3	322-5	880-4	131-3	404-3	320-5	896-4	131-3	402-3
0.055	176-3	626-5	353-3	211-3	715-3	402-5	169-3	136-3	459-3	397-5	137-3	134-3	453-3	396-5	116-3	134-3	453-3	392-5	112-3	133-3	447-3
0.060	697-4	614-5	322-3	174-3	643-3	524-5	189-3	149-3	549-3	497-5	162-3	141-3	520-3	482-5	150-3	137-3	505-3	472-5	139-3	134-3	494-3
0.065	548-3	989-5	644-3	239-3	956-3	592-5	272-3	143-3	572-3	580-5	217-3	140-3	561-3	569-5	186-3	137-3	550-3	563-5	171-3	137-3	544-3
0.070	404-3	107-4	655-3	224-3	964-3	721-5	378-3	151-3	647-3	653-5	274-3	136-3	586-3	663-5	233-3	138-3	595-3	663-5	205-3	139-3	595-3
0.075	960-3	140-4	108-2	150-3	117-2	803-5	381-3	146-3	673-3	783-5	304-3	142-3	656-3	784-5	273-3	143-3	657-3	777-5	238-3	142-3	651-3
0.080	148-3	123-4	518-3	196-3	967-3	995-5	374-3	158-3	781-3	963-5	321-3	154-3	756-3	937-5	298-3	150-3	736-3	909-5	272-3	146-3	714-3
0.085	803-3	135-4	860-3	191-3	100-2	118-4	408-3	167-3	875-3	114-4	351-3	162-3	849-3	111-4	324-3	157-3	821-3	105-4	311-3	151-3	780-3
0.090	554-3	182-4	933-3	230-3	127-2	141-4	481-3	178-3	990-3	136-4	372-3	172-3	954-3	128-4	366-3	164-3	898-3	121-4	355-3	155-3	847-3
0.095	784-3	267-4	124-2	170-4	177-2	170-4	539-3	192-3	112-2	156-4	480-3	176-3	103-2	147-4	442-3	167-3	974-3	137-4	405-3	158-3	910-3
0.100	667-3	234-4	105-2	239-3	147-2	171-4	619-3	175-3	107-2	166-4	574-3	169-3	104-2	164-4	528-3	167-3	103-2	155-4	460-3	160-3	979-3
0.110	857-3	562-4	275-2	475-3	321-2	255-4	109-2	215-3	145-2	225-4	912-3	189-3	129-2	212-4	775-3	180-3	121-2	194-4	599-3	168-3	111-2
0.120	276-2	946-4	430-2	672-3	495-2	413-4	192-2	294-3	216-2	315-4	125-2	226-3	165-2	269-4	981-3	195-3	141-2	239-4	753-3	173-3	125-2
0.130	128-2	132-3	301-2	473-3	378-2	506-4	182-2	307-3	345-2	410-4	139-2	246-3	198-2	353-4	118-2	216-3	170-2	282-4	888-3	175-3	136-2
0.140	437-2	132-3	543-2	690-3	594-2	625-4	257-2	362-3	311-2	570-4	195-2	296-3	256-2	448-4	147-2	235-3	201-2	334-4	109-2	181-3	149-2
0.150	885-2	270-3	112-1	123-2	113-1	822-4	305-2	374-3	442-2	699-4	239-2	318-3	252-2	564-4	188-2	261-3	236-2	415-4	132-2	197-3	174-2
0.160	429-2	201-3	730-2	806-3	792-2	102-3	366-2	406-3	400-2	874-4	294-2	354-3	343-2	699-4	222-2	286-3	274-2	506-4	155-2	212-3	198-2
0.170	313-2	221-3	752-2	785-3	819-2	147-3	413-2	424-3	513-2	996-4	332-2	354-3	368-2	819-4	256-2	295-3	303-2	587-4	177-2	219-3	216-2
0.180	154-1	476-3	165-1	150-2	166-1	117-3	507-2	466-3	513-2	108-3	353-2	342-3	377-2	949-4	295-2	302-3	331-2	667-4	196-2	224-3	233-2
0.190	489-2	316-3	103-1	895-3	104-1	199-3	658-2	563-3	659-2	148-3	470-2	421-3	489-2	111-3	344-2	323-3	369-2	744-4	217-2	224-3	246-2
0.200	233-1	190-3	242-1	202-2	248-1	271-3	849-2	690-3	852-2	182-3	555-2	459-3	571-2	126-3	379-2	317-3	396-2	798-4	225-2	218-3	250-2
0.220	690-2	274-3	762-2	579-3	782-2	209-3	604-2	444-3	598-2	181-3	520-2	386-3	517-2	138-3	380-2	289-3	395-2	102-3	236-2	223-3	293-2
0.240	148-1	798-3	207-1	141-2	209-1	355-3	864-2	630-3	929-2	205-3	485-2	369-3	538-2	156-3	369-2	287-3	409-2	124-3	269-2	235-3	325-2
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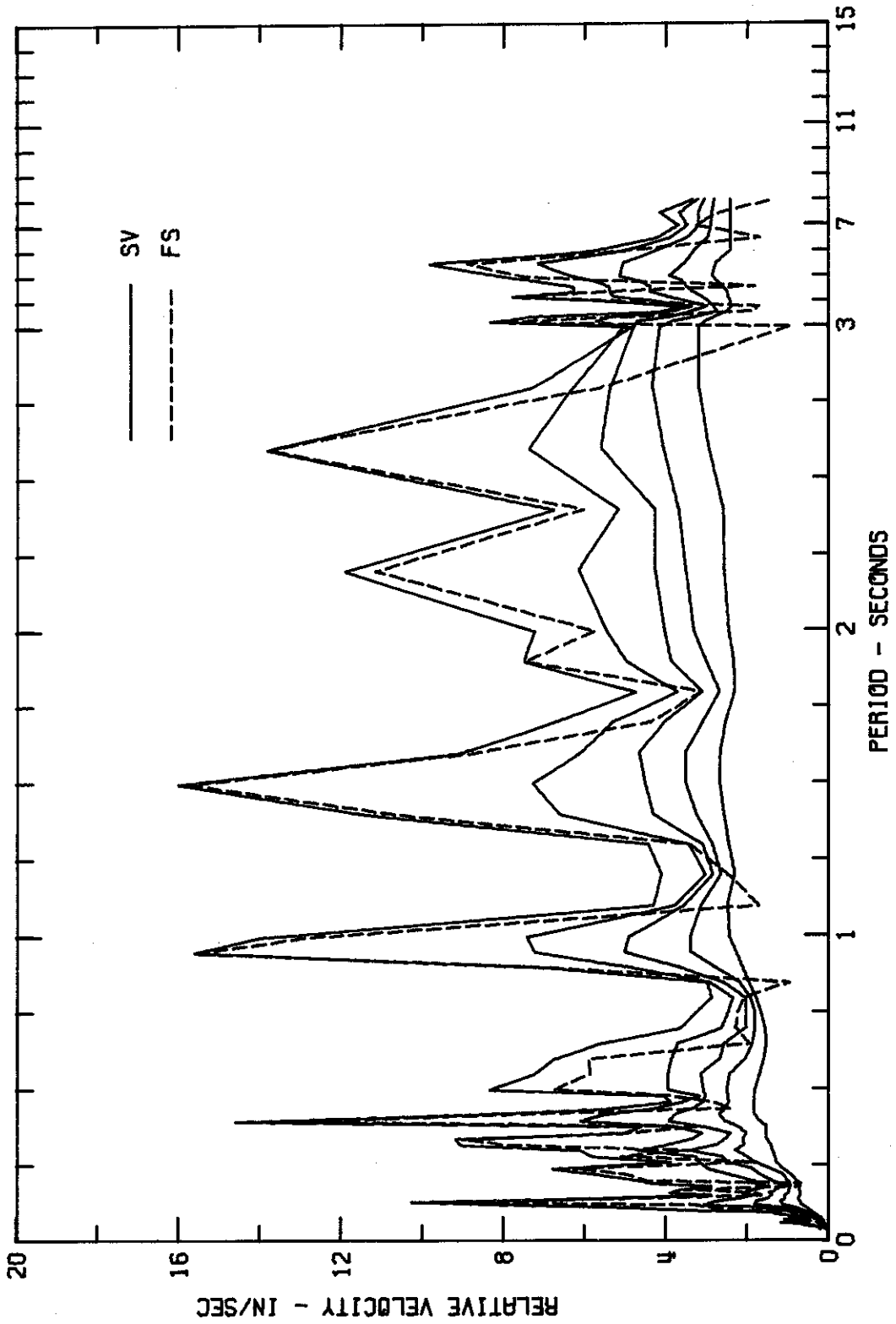
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DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

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0.80	751-2	108-2	812-2	173-3	852-2	601-3	551-2	960-4	472-2	475-3	488-2	764-4	373-2	415-3	402-2	681-4	326-2	303-3	340-2	546-4	238-2
0.85	992-2	158-2	117-1	1224-3	117-1	935-3	796-2	132-3	691-2	649-3	584-2	925-4	480-2	493-3	425-2	716-4	364-2	328-3	363-2	530-4	242-2
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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

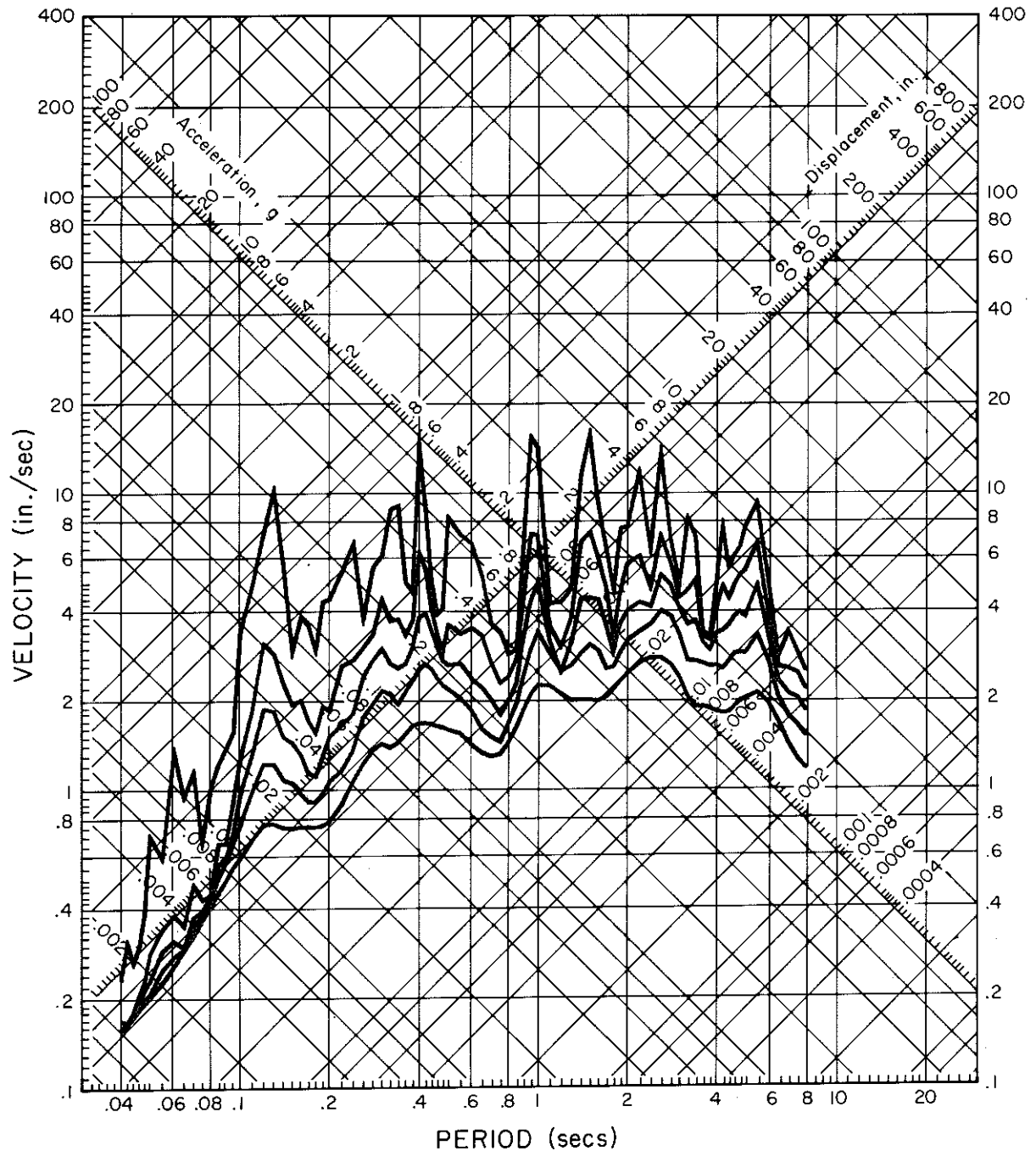


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IIIN188 71.084.0 1880 CENTURY PARK EAST, PARKING, 1ST LEVEL, LOS ANGELES, CAL. COMP DOWN
 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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0.044	485-4	185-5	187-3	979-4	264-3	128-5	786-4	677-4	183-3	126-5	687-4	669-4	181-3	125-5	594-4	665-4	179-3
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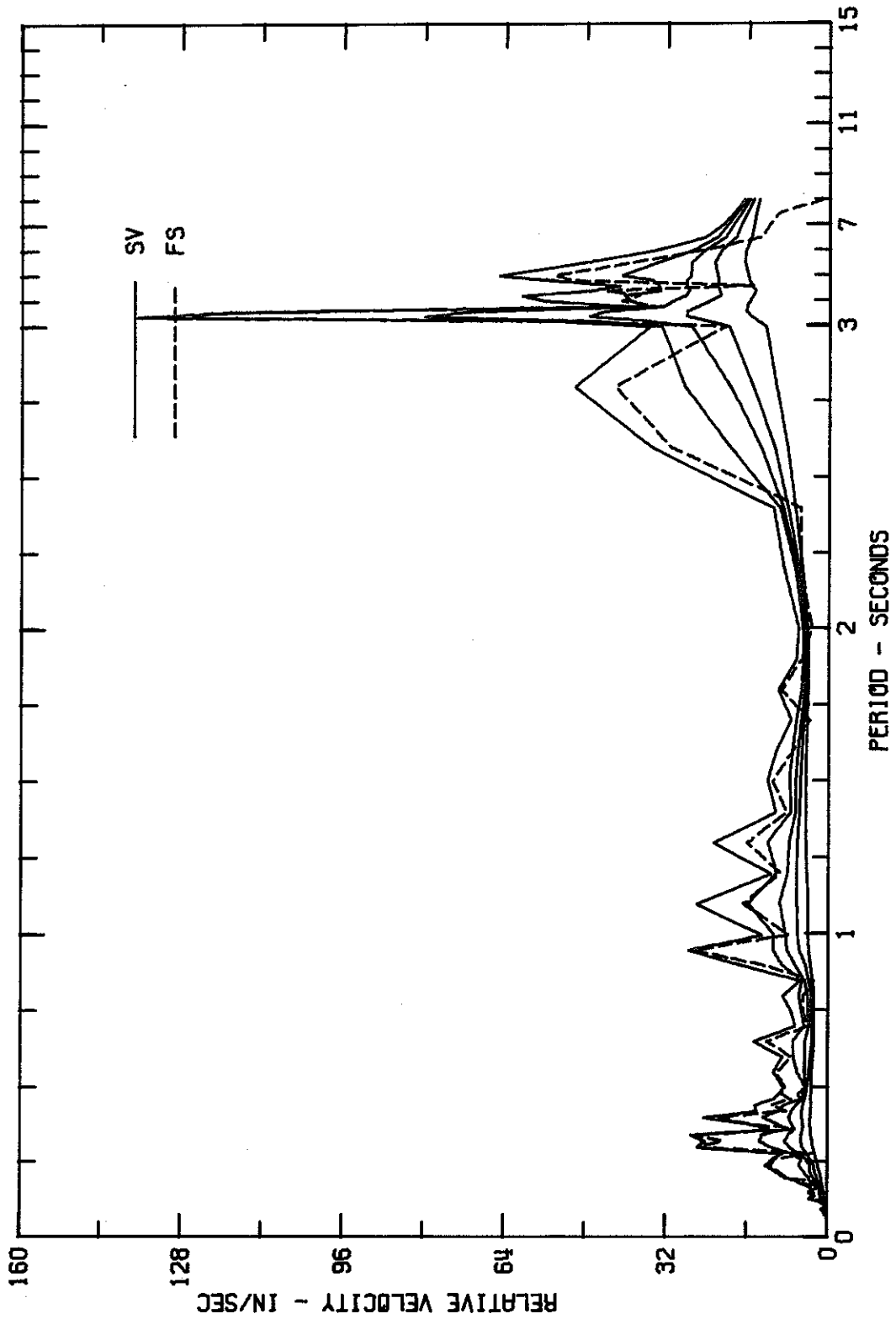
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IIIN188 71.084.0 1880 CENTURY PARK EAST, PARKING, 1ST LEVEL, LOS ANGELES, CAL. COMP DOWN

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111N189 71.085.0 1880 CENTURY PARK EAST, 7TH FLOOR, LOS ANGELES, CAL. COMP N54E
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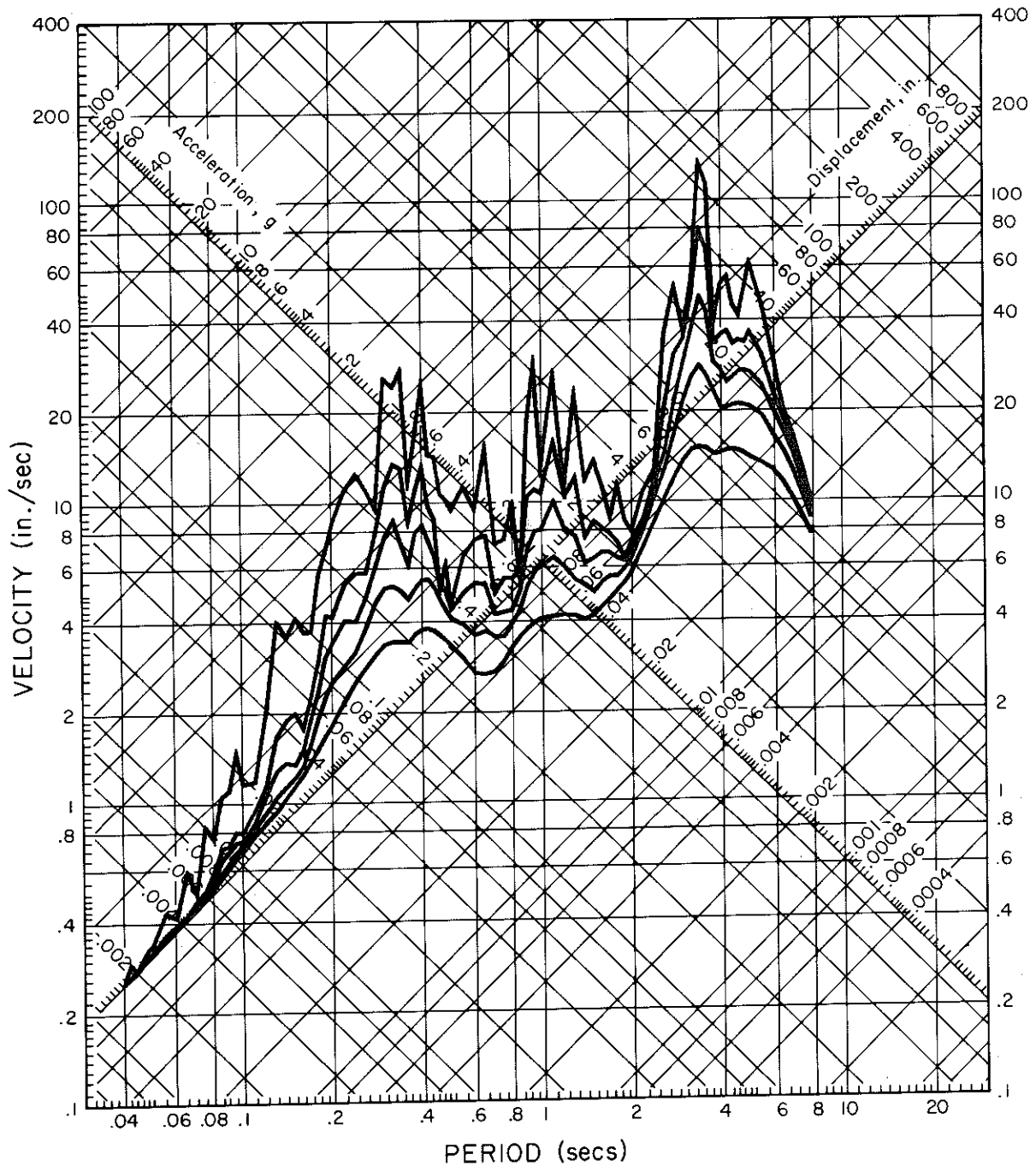


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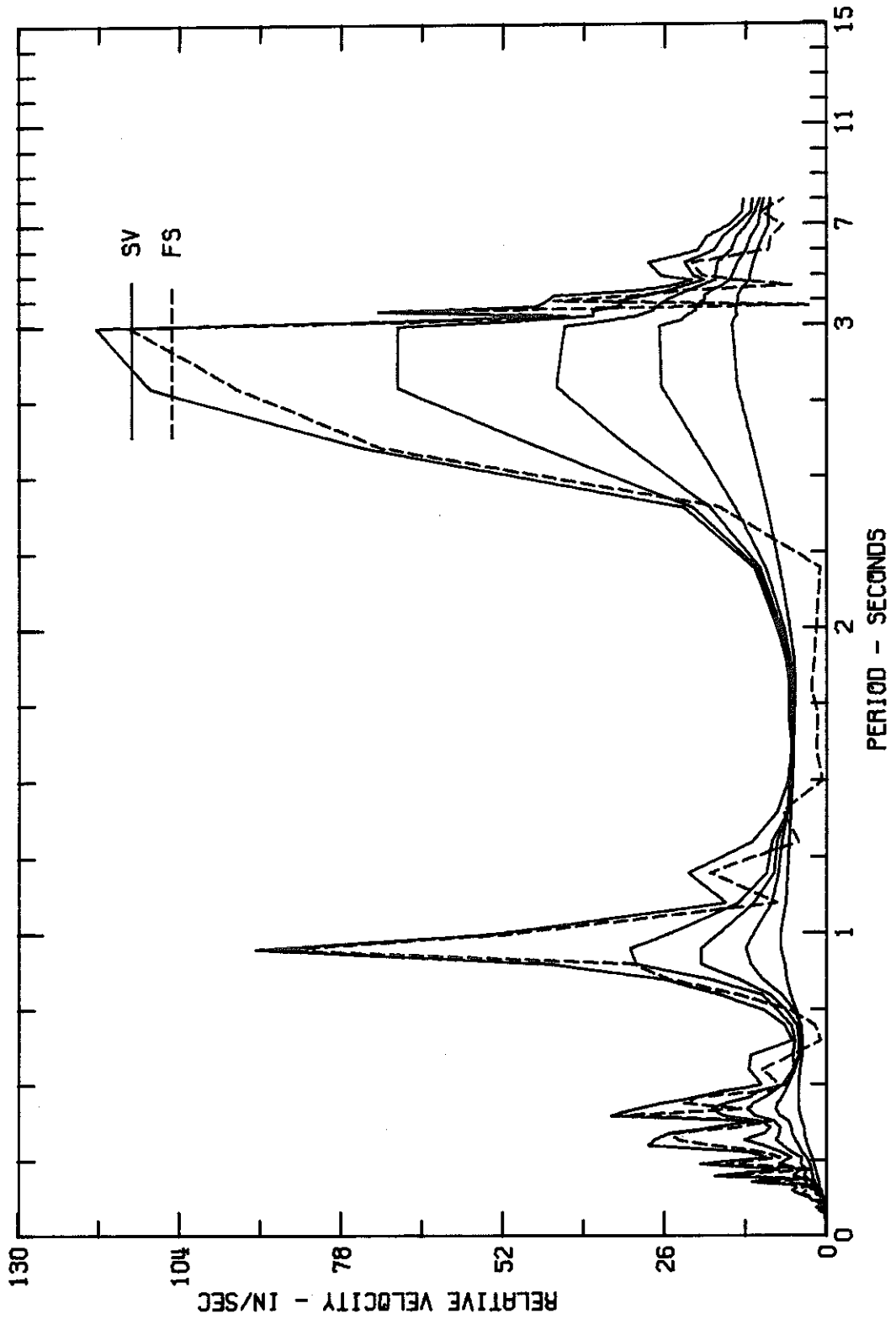
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IIIN189 71.085.0 1880 CENTURY PARK EAST, 7TH FLOOR, LOS ANGELES, CAL. CUMP N54E

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0.095	112-2	226-4	118-2	176-3	149-2	122-4	497-3	138-3	808-3	111-4	415-3	127-3	738-3	103-4	338-3	117-3	681-3		
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0.650	122-1	159-2	148-1	385-3	153-1	812-3	701-2	196-3	785-2	555-3	451-2	135-3	537-2	390-3	313-2	959-4	377-2		
0.700	407-2	814-3	651-2	170-3	731-2	559-3	472-2	116-3	502-2	476-3	375-2	100-3	427-2	399-3	325-2	846-4	358-2		

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111N189 71.085.0 1880 CENTURY PARK EAST, 7TH FLOOR, LOS ANGELES, CAL. COMP N36W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

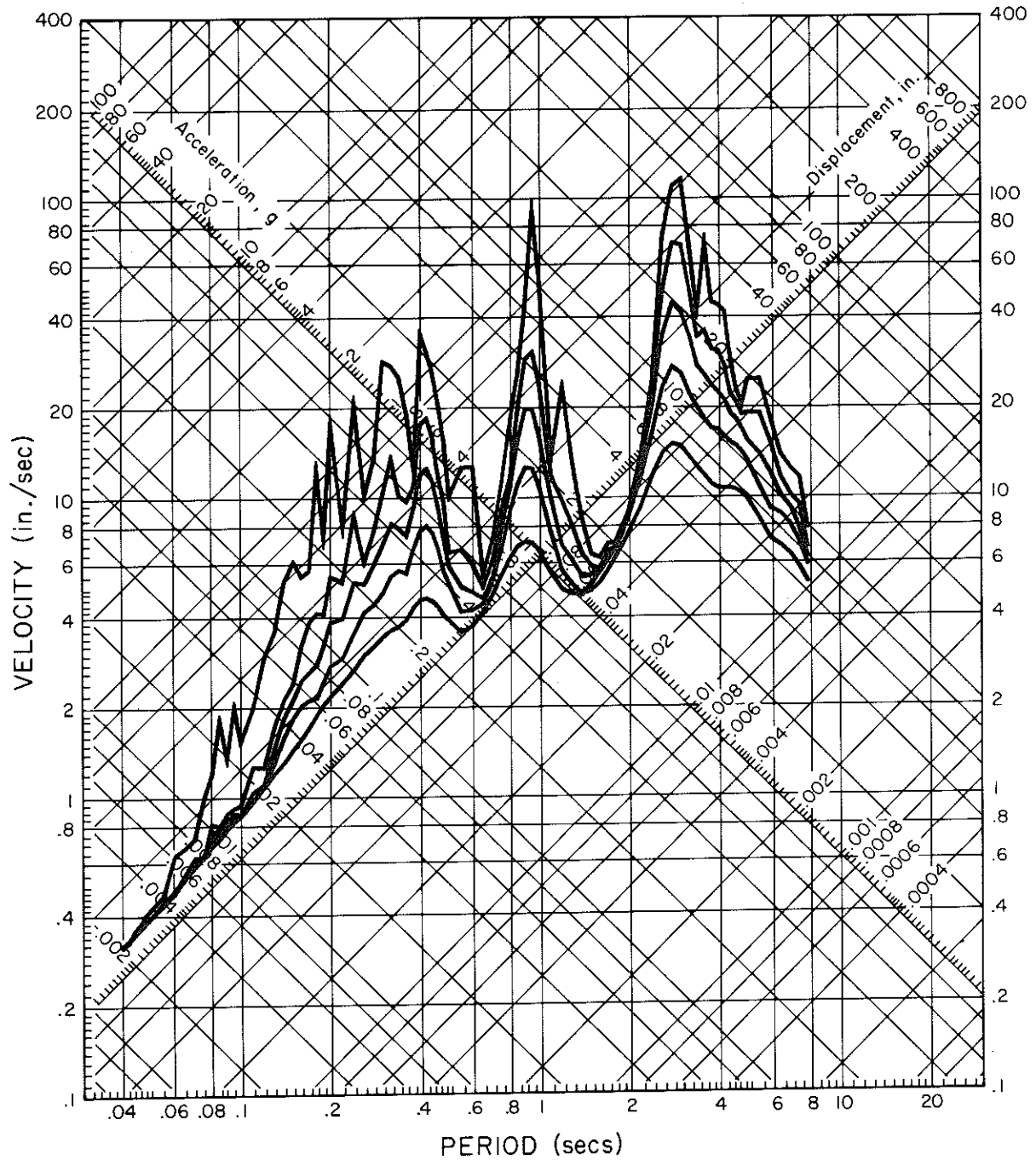


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN189 71.085.0 1880 CENTURY PARK EAST, 7TH FLOOR, LOS ANGELES, CAL. COMP N36W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

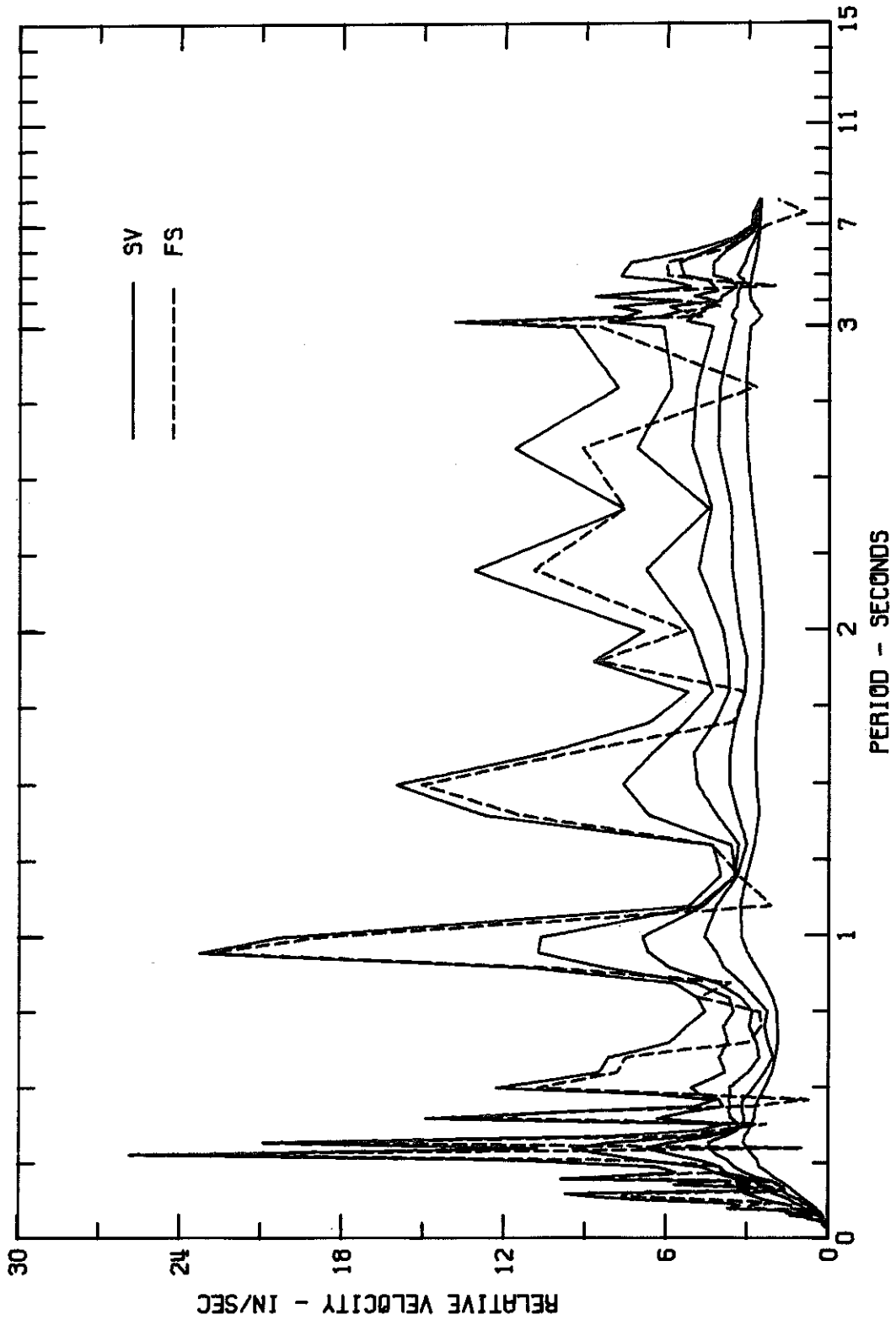


IIIN189 71.085.0 1880 CENTURY PARK EAST, 7TH FLOOR, LOS ANGELES, CAL. COMP N36W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT					
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	595-2	135-2	103-1	246-3	113-1	109-2	818-2	198-3	914-2	930-3	668-2	170-3	779-2	798-3	539-2	147-3	669-2	662-3	498-2	129-3	555-2
0.80	142-1	230-2	171-1	367-3	180-1	149-2	105-1	239-3	117-1	136-2	919-2	219-3	107-1	113-2	735-2	184-3	892-2	804-3	587-2	139-3	632-2
0.85	255-1	359-2	261-1	508-3	265-1	271-2	188-1	384-3	200-1	211-2	142-1	301-3	156-1	151-2	104-1	219-3	112-1	935-3	661-2	143-3	691-2
0.90	311-1	628-2	444-1	793-3	438-1	418-2	306-1	529-3	292-1	284-2	202-1	361-3	198-1	181-2	123-1	233-3	126-1	102-2	685-2	138-3	717-2
0.95	884-1	140-1	919-1	159-2	929-1	467-2	316-1	529-3	309-1	300-2	202-1	341-3	198-1	189-2	130-1	218-3	125-1	107-2	749-2	129-3	708-2
1.00	514-1	872-2	544-1	892-3	548-1	387-2	253-1	396-3	243-1	256-2	173-1	263-3	161-1	173-2	117-1	180-3	108-1	106-2	748-2	117-3	670-2
1.10	804-2	238-2	162-1	201-3	136-1	207-2	141-1	175-3	118-1	172-2	116-1	146-3	985-2	133-2	874-2	116-3	764-2	979-3	653-2	906-4	559-2
1.20	188-1	450-2	223-1	320-3	236-1	185-2	954-2	132-3	973-2	131-2	840-2	941-4	691-2	108-2	771-2	783-4	569-2	941-3	630-2	716-4	493-2
1.30	461-2	262-2	118-1	158-3	126-1	165-2	882-2	100-3	797-2	126-2	799-2	768-4	611-2	105-2	718-2	652-4	511-2	988-3	605-2	634-4	477-2
1.40	712-2	185-2	780-2	969-4	834-2	144-2	621-2	752-4	646-2	121-2	631-2	635-4	543-2	105-2	629-2	560-4	475-2	106-2	578-2	584-4	476-2
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1.60	181-2	160-2	571-2	642-4	631-2	148-2	566-2	592-4	582-2	149-2	561-2	597-4	585-2	144-2	556-2	585-4	568-2	133-2	537-2	556-4	522-2
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2.20	115-2	497-2	117-1	105-3	142-1	475-2	112-1	100-3	135-1	449-2	107-1	954-4	128-1	406-2	997-2	874-4	116-1	326-2	777-2	732-4	933-2
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3.20	646-1	352-1	694-1	351-3	691-1	251-1	499-1	250-3	492-1	176-1	351-1	177-3	347-1	112-1	232-1	115-3	221-1	694-2	150-1	747-4	136-1
3.40	415-1	227-1	443-1	200-3	419-1	186-1	374-1	165-3	344-1	148-1	302-1	132-3	274-1	108-1	224-1	981-4	199-1	683-2	144-1	658-4	126-1
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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
1111189 71.085.0 1880 CENTURY PARK EAST, 7TH FLOOR, LOS ANGELES, CAL. COMP DOWN
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

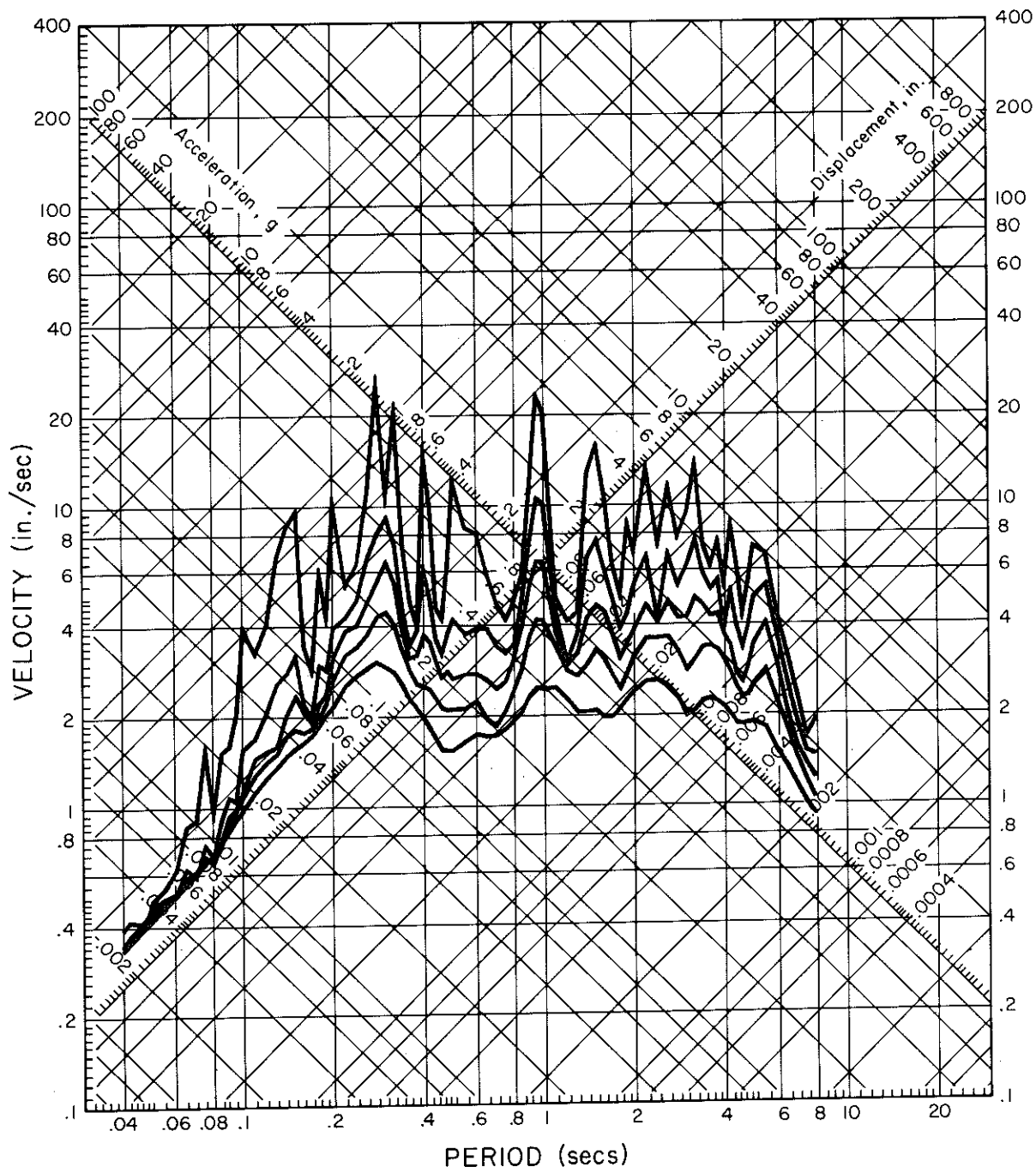


RESPONSE SPECTRUM

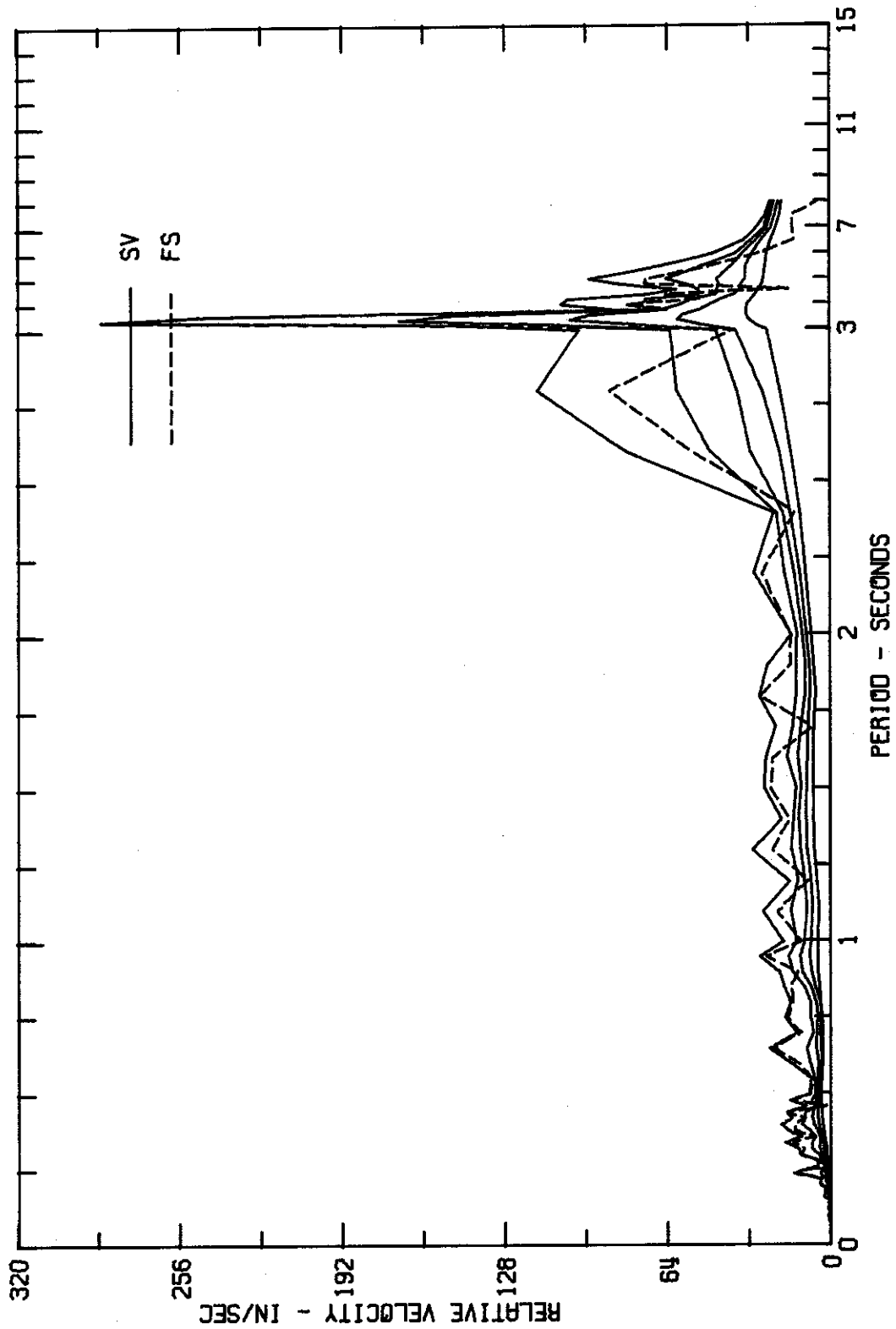
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

11IN189 71.085.0 1880 CENTURY PARK EAST, 7TH FLOOR, LOS ANGELES, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111N190 71.086.0 1880 CENTURY PARK EAST, PENTHOUSE, LOS ANGELES, CAL. COMP NS4E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

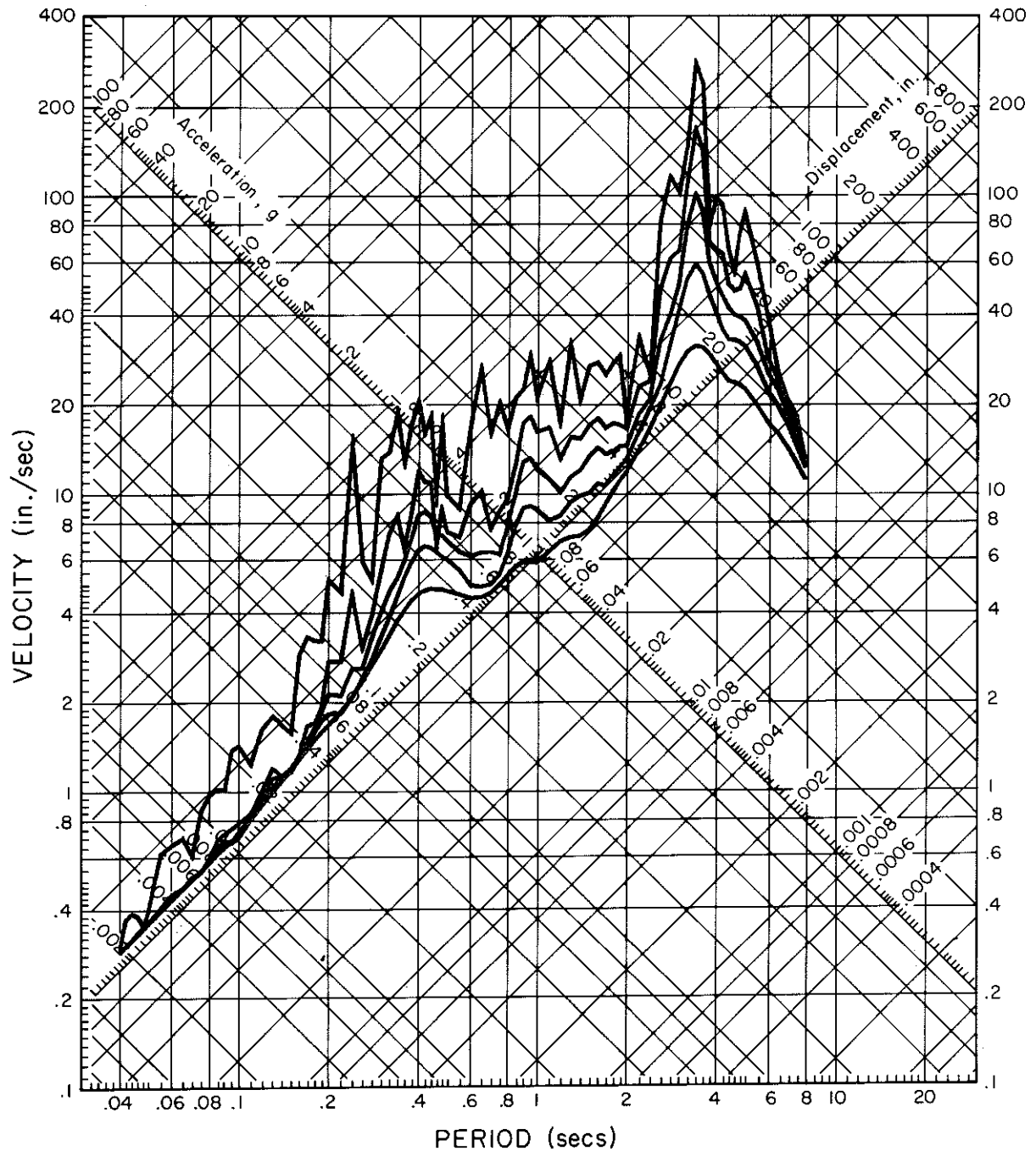


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN190 71.086.0 1880 CENTURY PARK EAST, PENTHOUSE, LOS ANGELES, CAL. COMP N54E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

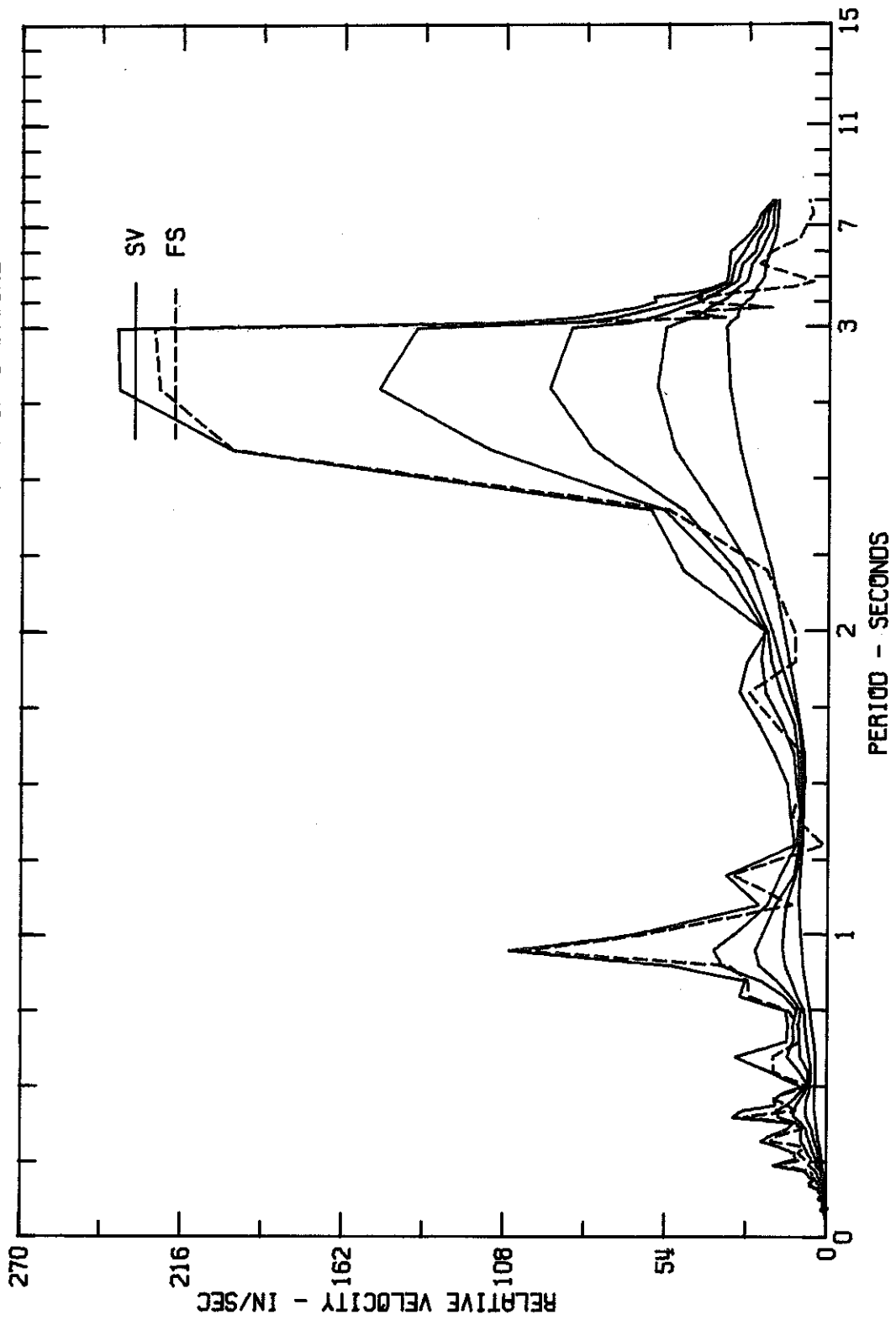
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0.040	850-4	188-5	793-4	120-3	295-3	183-5	498-4	117-3	288-3	182-5	471-4	116-3	287-3	182-5	439-4	116-3	287-3		
0.042	229-4	248-5	109-3	144-3	371-3	200-5	532-4	116-3	299-3	201-5	515-4	116-3	301-3	201-5	482-4	116-3	301-3		
0.044	528-4	274-5	137-3	144-3	391-3	221-5	593-4	116-3	315-3	221-5	561-4	117-3	316-3	221-5	522-4	117-3	316-3		
0.046	152-3	279-5	114-3	134-3	381-3	245-5	623-4	118-3	335-3	243-5	595-4	117-3	332-3	242-5	560-4	117-3	332-3		
0.048	674-4	269-5	984-4	119-3	353-3	267-5	660-4	118-3	349-3	266-5	635-4	118-3	348-3	265-5	595-4	117-3	347-3		
0.050	867-4	317-5	108-3	129-3	399-3	289-5	694-4	118-3	363-3	289-5	671-4	118-3	363-3	288-5	630-4	118-3	363-3		
0.055	295-3	543-5	298-3	183-3	620-3	357-5	827-4	120-3	408-3	355-5	800-4	120-3	408-3	352-5	746-4	119-3	403-3		
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0.070	127-3	676-5	240-3	141-3	607-3	576-5	123-3	120-3	517-3	565-5	112-3	118-3	507-3	564-5	106-3	118-3	506-3		
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0.100	693-3	227-4	101-2	232-3	143-2	124-4	331-3	126-3	775-3	116-4	216-3	118-3	729-3	111-4	178-3	114-3	700-3		
0.110	899-4	216-4	633-3	183-3	123-2	147-4	278-3	125-3	845-3	144-4	248-3	122-3	825-3	142-4	211-3	120-3	813-3		
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0.150	109-3	376-4	108-2	171-3	157-2	278-4	553-3	126-3	116-2	287-4	438-3	130-3	120-2	289-4	388-3	132-3	121-2		
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0.180	202-2	929-4	246-2	293-3	324-2	492-4	994-3	155-3	172-2	473-4	841-3	150-3	165-2	458-4	686-3	140-3	160-2		
0.190	130-2	978-4	287-2	277-3	323-2	588-4	156-2	166-3	194-2	568-4	109-2	161-3	188-2	527-4	798-3	150-3	174-2		
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0.500	800-2	792-3	850-2	324-3	995-2	600-3	634-2	246-3	754-2	558-3	602-2	249-3	702-2	485-3	492-2	201-3	610-2		
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0.600	127-1	162-2	156-1	461-3	169-1	898-3	804-2	256-3	941-2	598-3	505-2	170-3	626-2	476-3	373-2	137-3	499-2		
0.650	222-1	277-2	241-1	671-3	267-1	107-2	982-2	260-3	103-1	668-3	607-2	162-3	646-2	512-3	398-2	125-3	494-2		
0.700	116-1	179-2	131-1	375-3	161-1	859-3	698-2	179-3	771-2	720-3	570-2	150-3	647-2	560-3	419-2	118-3	502-2		

111N190 71.086.0 1880 CENTURY PARK EAST, PENTHOUSE, LOS ANGELES, CAL. COMP N54E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT				
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0.80	148-1	212-2	158-1	339-3	166-1	124-2	802-2	199-3	980-2	101-2	594-2	162-3	795-2	820-3	431-2	133-3	644-2	690-3	422-2	117-3	542-2
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0.90	130-1	327-2	203-1	414-3	228-1	252-2	153-1	319-3	176-1	186-2	113-1	236-3	130-1	130-2	789-2	167-3	908-2	857-3	522-2	115-3	598-2
0.95	254-1	448-2	280-1	508-3	296-1	279-2	169-1	316-3	184-1	202-2	122-1	230-3	133-1	139-2	839-2	160-3	925-2	907-3	534-2	108-3	600-2
1.00	116-1	338-2	188-1	346-3	212-1	260-2	134-1	266-3	163-1	194-2	104-1	199-3	122-1	142-2	779-2	147-3	897-2	949-3	516-2	998-4	596-2
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1.40	162-1	465-2	193-1	243-3	209-1	345-2	145-1	180-3	154-1	271-2	124-1	142-3	121-1	222-2	988-2	118-3	996-2	163-2	679-2	899-4	732-2
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3.80	642-1	491-1	843-1	347-3	812-1	426-1	725-1	302-3	705-1	365-1	658-1	260-3	603-1	284-1	510-1	206-3	470-1	180-1	332-1	139-3	298-1
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5.60	141-1	264-1	337-1	641-4	256-1	250-1	309-1	607-4	242-1	231-1	290-1	565-4	223-1	204-1	269-1	516-4	198-1	166-1	231-1	469-4	160-1
6.00	150-1	232-1	288-1	486-4	209-1	223-1	259-1	466-4	200-1	209-1	248-1	443-4	188-1	190-1	232-1	417-4	171-1	160-1	213-1	400-4	143-1
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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111N190 71.086.0 1880 CENTURY PARK EAST, PENTHOUSE, LOS ANGELES, CAL. COMP N36W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

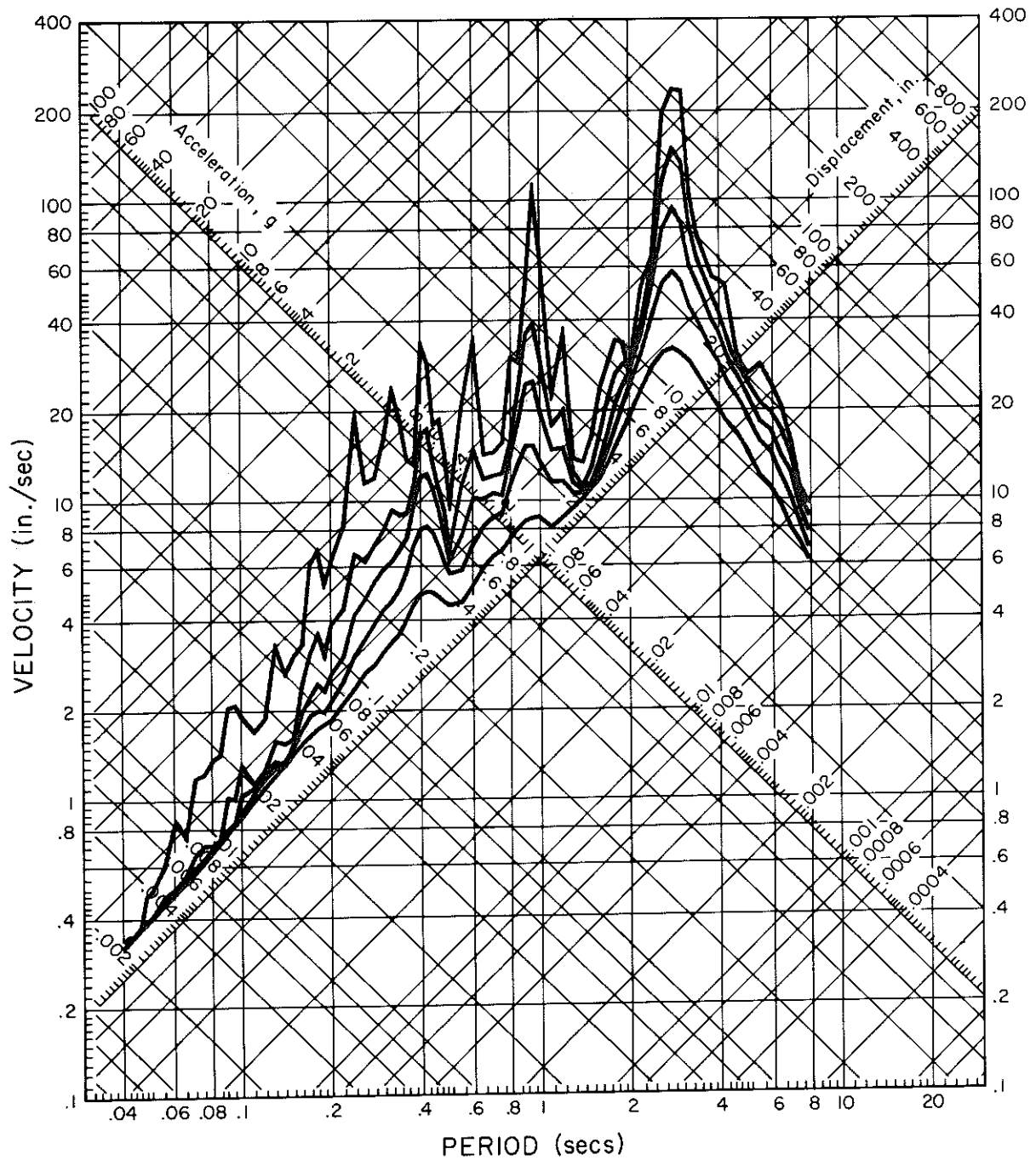


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN190 71.086.0 1880 CENTURY PARK EAST, PENTHOUSE, LOS ANGELES, CAL. COMP N36W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN190 71.086.0 1880 CENTURY PARK EAST, PENTHOUSE, LOS ANGELES, CAL. CUMP N36W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FUR SD AND G FOR SA

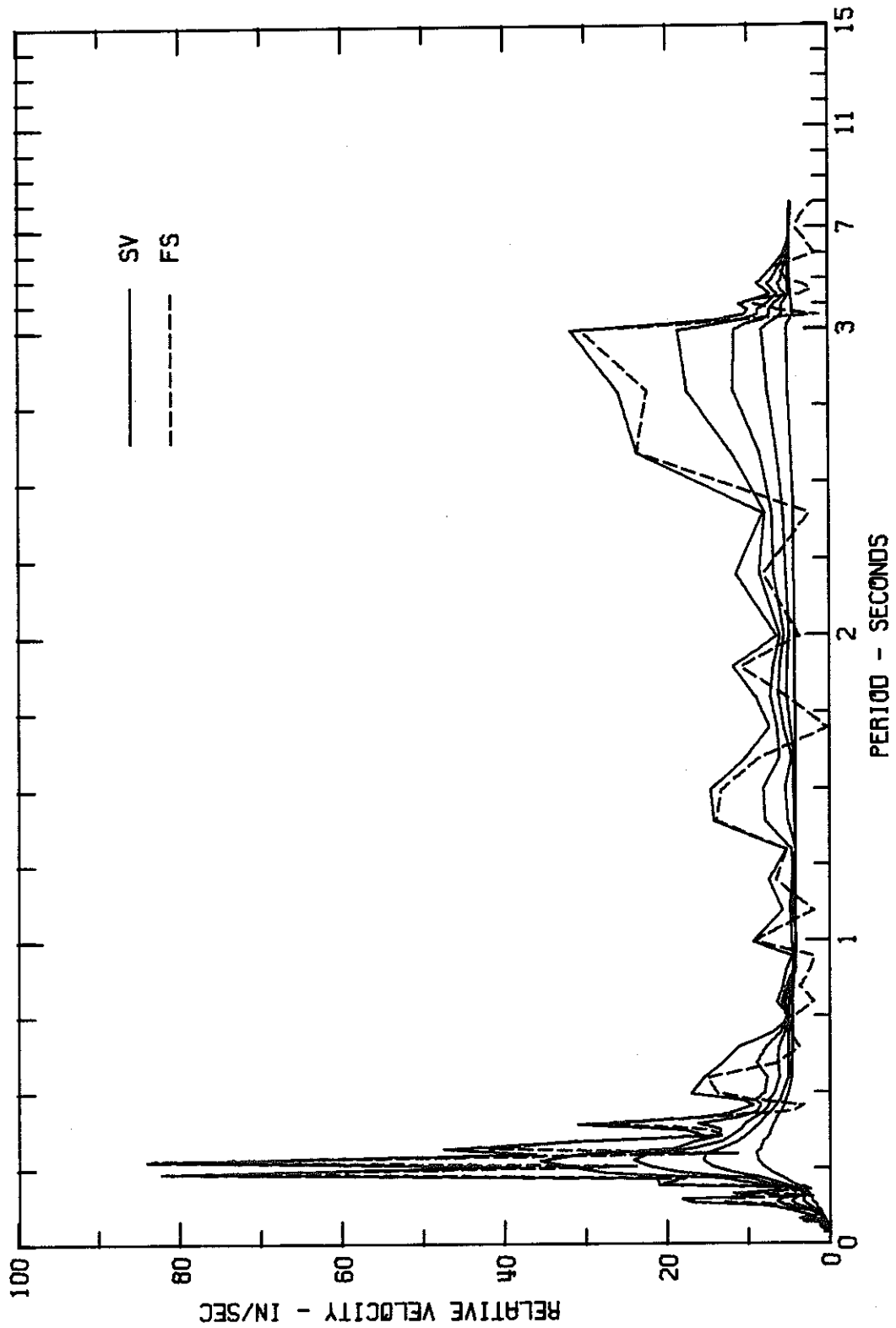
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0.042	688-4	232-5	776-4	134-3	347-3	225-5	432-4	130-3	336-3	224-5	407-4	130-3	335-3	224-5	372-4	130-3	335-3	223-5	383-4	130-3	334-3
0.044	104-3	244-5	123-3	129-3	349-3	248-5	460-4	131-3	354-3	247-5	433-4	131-3	353-3	247-5	420-4	130-3	352-3	246-5	427-4	130-3	351-3
0.046	123-3	276-5	130-3	133-3	377-3	274-5	584-4	132-3	374-3	271-5	497-4	131-3	371-3	270-5	477-4	131-3	370-3	269-5	476-4	130-3	368-3
0.048	126-3	364-5	143-3	161-3	477-3	297-5	664-4	132-3	389-3	296-5	558-4	131-3	388-3	295-5	547-4	131-3	387-3	294-5	531-4	131-3	385-3
0.050	256-3	392-5	252-3	160-3	492-3	320-5	723-4	131-3	402-3	321-5	661-4	131-3	404-3	321-5	624-4	131-3	403-3	319-5	592-4	131-3	401-3
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0.090	420-3	293-4	166-2	371-3	205-2	145-4	653-3	184-3	101-2	114-4	401-3	144-3	795-3	111-4	300-3	141-3	781-3	110-4	226-3	140-3	769-3
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0.110	108-2	297-4	127-2	251-3	169-2	197-4	555-3	167-3	112-2	191-4	492-3	162-3	109-2	184-4	389-3	157-3	105-2	173-4	324-3	149-3	990-3
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0.550	182-1	186-2	195-1	632-3	213-1	998-3	947-2	338-3	114-1	674-3	650-2	229-3	770-2	515-3	543-2	176-3	588-2	402-3	425-2	142-3	459-2
0.600	183-1	326-2	309-1	926-3	341-1	141-2	136-1	403-3	148-1	981-3	925-2	279-3	102-1	687-3	622-2	198-3	719-2	504-3	412-2	149-3	527-2
0.650	895-2	148-2	135-1	359-3	143-1	122-2	114-1	297-3	118-1	105-2	958-2	255-3	102-1	856-3	727-2	210-3	828-2	625-3	477-2	160-3	604-2
0.700	979-2	162-2	134-1	339-3	145-1	136-2	117-1	283-3	122-1	118-2	975-2	249-3	106-1	984-3	758-2	209-3	884-2	730-3	543-2	162-3	655-2

IIIN190 71.086.0 1880 CENTURY PARK EAST, PENTHOUSE, LOS ANGELES, CAL. COMP N36W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	DAMPING = 20 PER CENT														
																		DAMPING = 0 PER CENT			DAMPING = 2 PER CENT			DAMPING = 5 PER CENT			DAMPING = 10 PER CENT			DAMPING = 20 PER CENT		
0.75	131-1	188-2	141-1	342-3	157-1	147-2	104-1	268-3	123-1	124-2	899-2	227-3	104-1	108-2	805-2	200-3	908-2	820-3	618-2	160-3	687-2											
0.80	264-1	385-2	296-1	610-3	303-1	202-2	147-1	323-3	159-1	179-2	125-1	287-3	141-1	143-2	103-1	233-3	113-1	960-3	694-2	163-3	754-2											
0.85	267-1	396-2	276-1	561-3	293-1	325-2	225-1	460-3	240-1	252-2	170-1	359-3	186-1	181-2	124-1	262-3	134-1	109-2	760-2	166-3	810-2											
0.90	330-1	758-2	524-1	957-3	529-1	523-2	355-1	661-3	365-1	353-2	231-1	448-3	246-1	219-2	144-1	283-3	153-1	123-2	844-2	165-3	859-2											
0.95	101 0	164-1	106 0	186-2	108 0	599-2	381-1	678-3	396-1	380-2	245-1	434-3	251-1	232-2	151-1	268-3	153-1	133-2	885-2	162-3	880-2											
1.00	632-1	109-1	674-1	112-2	690-1	482-2	317-1	493-3	303-1	321-2	220-1	330-3	201-1	219-2	149-1	228-3	137-1	140-2	940-2	154-3	882-2											
1.10	119-1	400-2	230-1	338-3	228-1	314-2	202-1	265-3	179-1	259-2	172-1	220-3	148-1	202-2	139-1	174-3	115-1	143-2	990-2	130-3	817-2											
1.20	321-1	695-2	341-1	493-3	364-1	386-2	157-1	274-3	202-1	287-2	113-1	204-3	150-1	222-2	107-1	160-3	116-1	168-2	926-2	124-3	882-2											
1.30	143-2	285-2	115-1	172-3	137-1	257-2	107-1	155-3	124-1	238-2	964-2	144-3	115-1	219-2	903-2	134-3	105-1	195-2	860-2	122-3	947-2											
1.40	122-1	301-2	127-1	157-3	135-1	249-2	930-2	130-3	112-1	242-2	878-2	126-3	108-1	237-2	879-2	125-3	106-1	227-2	819-2	122-3	102-1											
1.50	746-2	396-2	137-1	180-3	166-1	313-2	108-1	142-3	131-1	276-2	997-2	126-3	115-1	268-2	908-2	122-3	112-1	262-2	795-2	123-3	109-1											
1.60	890-2	611-2	181-1	244-3	240-1	432-2	116-1	173-3	170-1	351-2	103-1	140-3	138-1	325-2	906-2	131-3	127-1	303-2	824-2	125-3	119-1											
1.70	181-1	784-2	236-1	277-3	290-1	596-2	158-1	211-3	220-1	459-2	116-1	163-3	169-1	401-2	102-1	143-3	148-1	364-2	974-2	133-3	134-1											
1.80	266-1	989-2	298-1	312-3	345-1	767-2	210-1	242-3	268-1	609-2	159-1	193-3	212-1	506-2	131-1	161-3	176-1	436-2	115-1	144-3	152-1											
1.90	110-1	102-1	272-1	290-3	339-1	870-2	226-1	246-3	287-1	742-2	192-1	211-3	245-1	635-2	163-1	182-3	210-1	517-2	134-1	154-3	171-1											
2.00	113-1	851-2	209-1	217-3	267-1	885-2	214-1	226-3	278-1	854-2	207-1	219-3	268-1	762-2	189-1	197-3	239-1	605-2	153-1	163-3	190-1											
2.20	209-1	182-1	486-1	385-3	520-1	139-1	348-1	294-3	397-1	126-1	309-1	267-3	360-1	108-1	260-1	233-3	310-1	826-2	193-1	184-3	235-1											
2.40	538-1	254-1	598-1	451-3	665-1	236-1	556-1	420-3	620-1	203-1	488-1	363-3	533-1	159-1	384-1	288-3	418-1	107-1	248-1	203-3	282-1											
2.60	199 0	825-1	199 0	124-2	199 0	489-1	113 0	740-3	118 0	340-1	793-1	516-3	822-1	222-1	520-1	343-3	538-1	130-1	300-1	211-3	315-1											
2.80	223 0	106 0	237 0	139-2	239 0	674-1	150 0	880-3	151 0	424-1	934-1	556-3	952-1	260-1	576-1	346-3	584-1	144-1	336-1	203-3	325-1											
3.00	225 0	112 0	238 0	127-2	235 0	648-1	137 0	737-3	135 0	400-1	861-1	457-3	839-1	256-1	546-1	297-3	537-1	148-1	346-1	184-3	310-1											
3.20	897-1	534-1	109 0	533-3	104 0	415-1	869-1	414-3	814-1	308-1	660-1	309-3	605-1	225-1	500-1	231-3	443-1	148-1	332-1	162-3	291-1											
3.40	349-1	411-1	829-1	364-3	760-1	343-1	712-1	304-3	634-1	283-1	584-1	252-3	523-1	215-1	451-1	196-3	399-1	143-1	308-1	140-3	264-1											
3.60	493-1	373-1	734-1	294-3	651-1	314-1	640-1	248-3	549-1	260-1	536-1	207-3	455-1	202-1	423-1	164-3	353-1	138-1	306-1	122-3	241-1											
3.80	194-1	337-1	639-1	239-3	558-1	291-1	570-1	200-3	481-1	240-1	492-1	171-3	397-1	188-1	402-1	137-3	311-1	133-1	298-1	105-3	219-1											
4.00	427-1	346-1	582-1	221-3	543-1	271-1	497-1	173-3	426-1	231-1	436-1	149-3	363-1	184-1	366-1	121-3	290-1	130-1	282-1	936-4	205-1											
4.20	446-1	351-1	586-1	203-3	525-1	245-1	453-1	142-3	366-1	212-1	403-1	124-3	317-1	172-1	339-1	103-3	257-1	124-1	261-1	822-4	186-1											
4.40	286-1	283-1	452-1	149-3	404-1	220-1	415-1	116-3	314-1	196-1	376-1	104-3	281-1	165-1	324-1	904-4	236-1	123-1	252-1	735-4	175-1											
4.60	128-1	226-1	391-1	109-3	308-1	211-1	372-1	102-3	289-1	191-1	344-1	933-4	261-1	162-1	303-1	818-4	222-1	122-1	243-1	670-4	167-1											
4.80	565-2	216-1	347-1	961-4	283-1	203-1	332-1	803-4	266-1	184-1	311-1	826-4	241-1	157-1	280-1	730-4	206-1	119-1	232-1	612-4	156-1											
5.00	981-2	210-1	342-1	860-4	264-1	195-1	327-1	802-4	246-1	176-1	304-1	729-4	222-1	150-1	270-1	644-4	189-1	115-1	219-1	555-4	145-1											
5.50	234-1	250-1	335-1	845-4	285-1	184-1	316-1	625-4	210-1	160-1	292-1	546-4	183-1	137-1	260-1	478-4	156-1	105-1	214-1	421-4	120-1											
6.00	196-1	232-1	332-1	659-4	242-1	187-1	286-1	534-4	196-1	162-1	250-1	467-4	170-1	137-1	231-1	406-4	143-1	105-1	201-1	357-4	110-1											
6.50	100-1	211-1	284-1	511-4	204-1	176-1	262-1	428-4	170-1	144-1	238-1	352-4	139-1	123-1	212-1	315-4	119-1	985-2	185-1	291-4	953-2											
7.00	816-2	173-1	250-1	362-4	155-1	156-1	231-1	327-4	140-1	136-1	211-1	289-4	122-1	113-1	190-1	257-4	101-1	893-2	176-1	246-4	801-2											
7.50	575-2	130-1	230-1	237-4	109-1	121-1	220-1	221-4	101-1	111-1	207-1	207-4	931-2	988-2	191-1	199-4	828-2	858-2	173-1	215-4	719-2											
8.00	686-2	123-1	193-1	197-4	969-2	112-1	192-1	181-4	886-2	100-1	189-1	164-4	786-2	884-2	182-1	158-4	694-2	801-2	172-1	185-4	629-2											

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111N190 71.086.0 1880 CENTURY PARK EAST, PENTHOUSE, LOS ANGELES, CAL. COMP DOWN
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

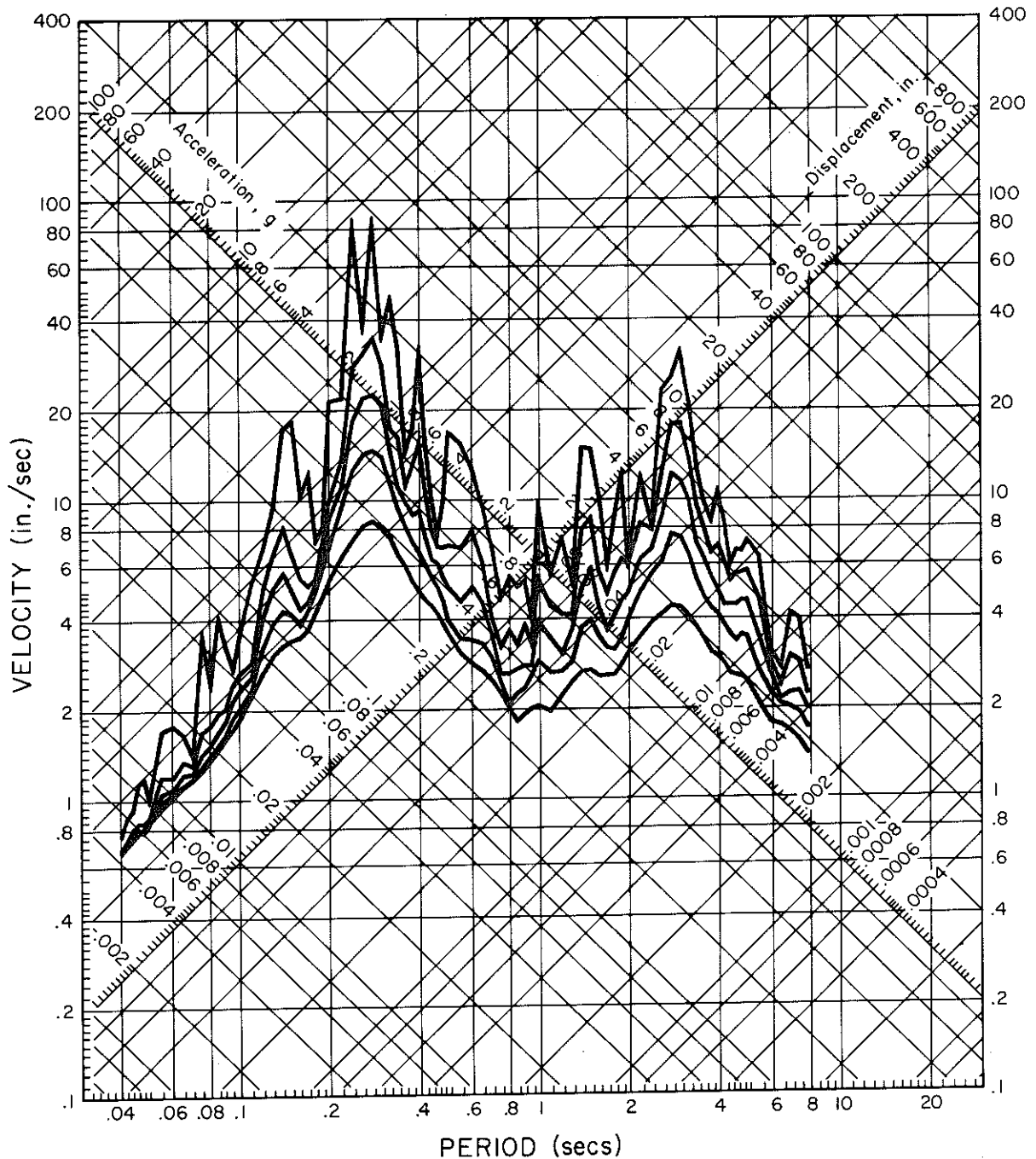


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN190 71.086.0 1880 CENTURY PARK EAST, PENTHOUSE, LOS ANGELES, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IIIN190 71.086.0 1880 CENTURY PARK EAST, PENTHOUSE, LUS ANGELES, CAL. COMP DOWN

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

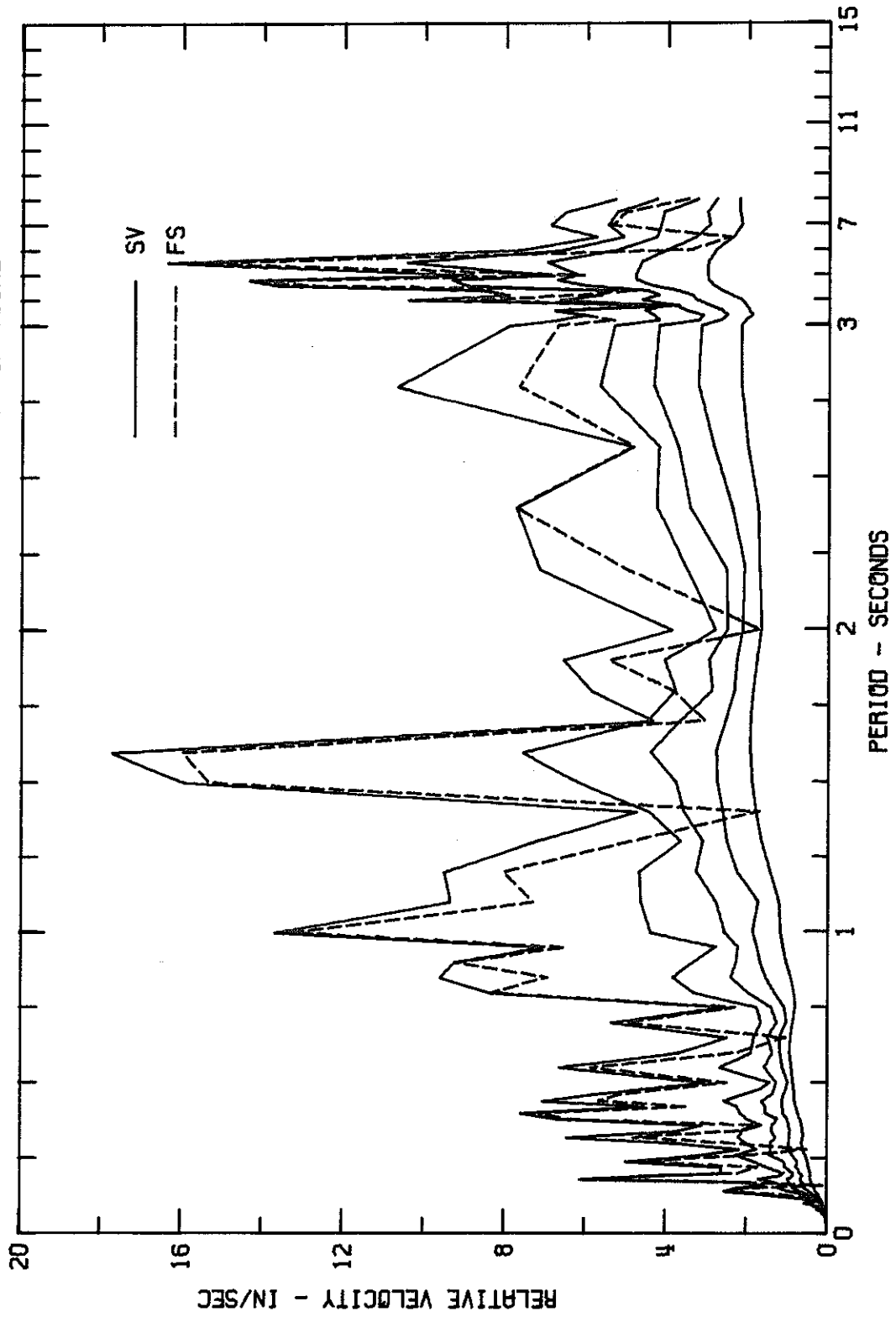
PER	DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT			
	FS	SD	SV	SA	FS	SD	SV	SA	FS	SD	SV	SA	FS	SD	SV	SA	FS	SD	SV	SA
0.75	458-2	565-3	493-2	102-3	474-2	389-3	530-2	708-4	326-2	315-3	536-2	580-4	264-2	296-3	514-2	599-4	248-2	270-3	466-2	675-4
0.80	197-2	712-3	656-2	113-3	559-2	470-3	597-2	752-4	369-2	335-3	550-2	542-4	263-2	266-3	508-2	485-4	209-2	257-3	462-2	587-4
0.85	371-2	697-3	587-2	987-4	515-2	445-3	546-2	630-4	329-2	371-3	513-2	527-4	274-2	308-3	484-2	444-4	227-2	248-3	453-2	514-4
0.90	252-2	778-3	546-2	983-4	543-2	553-3	458-2	698-4	386-2	403-3	429-2	513-4	281-2	339-3	447-2	444-4	236-2	278-3	441-2	459-4
0.95	188-2	612-3	472-2	693-4	404-2	502-3	451-2	568-4	332-2	426-3	424-2	485-4	281-2	397-3	424-2	463-4	262-2	306-3	431-2	421-4
1.00	934-2	152-2	947-2	156-3	960-2	882-3	474-2	905-4	554-2	631-3	415-2	649-4	396-2	465-3	420-2	492-4	292-2	329-3	425-2	394-4
1.10	199-2	100-2	584-2	847-4	572-2	778-3	494-2	658-4	444-2	608-3	462-2	515-4	347-2	467-3	437-2	405-4	267-2	347-3	422-2	359-4
1.20	661-2	143-2	752-2	101-3	750-2	798-3	460-2	568-4	418-2	590-3	439-2	422-4	308-2	514-3	428-2	375-4	269-2	428-3	421-2	343-4
1.30	535-2	111-2	536-2	672-4	537-2	860-3	470-2	520-4	416-2	774-3	426-2	472-4	374-2	602-3	426-2	378-4	291-2	515-3	422-2	347-4
1.40	139-1	337-2	143-1	175-3	151-1	180-2	798-3	940-4	808-2	114-2	525-2	600-4	513-2	846-3	445-2	455-4	379-2	599-3	426-2	355-4
1.50	133-1	356-2	147-1	161-3	149-1	210-2	828-2	956-4	880-2	141-2	558-2	645-4	592-2	954-3	454-2	448-4	351-2	660-3	428-2	317-4
1.60	880-2	265-2	104-1	106-3	104-1	146-2	623-2	586-4	575-2	111-2	474-2	448-4	437-2	894-3	448-2	361-4	351-2	660-3	428-2	317-4
1.70	339-3	164-2	746-2	582-4	607-2	133-2	657-2	471-4	491-2	100-2	578-2	360-4	370-2	873-3	493-2	314-4	322-2	705-3	433-2	287-4
1.80	518-2	254-2	910-2	804-4	839-2	166-2	736-2	524-4	579-2	119-2	639-2	379-4	417-2	912-3	531-2	292-4	318-2	750-3	431-2	259-4
1.90	109-1	366-2	119-1	103-3	121-1	193-2	695-2	549-4	641-2	140-2	614-2	398-4	463-2	105-2	521-2	306-4	349-2	862-3	433-2	276-4
2.00	374-2	200-2	653-2	511-4	628-2	194-2	613-2	496-4	609-2	157-2	564-2	405-4	495-2	128-2	502-2	338-4	402-2	995-3	436-2	290-4
2.20	814-2	419-2	115-1	887-4	119-1	295-2	869-2	624-4	842-2	224-2	694-2	476-4	642-2	174-2	540-2	382-4	498-2	123-2	445-2	301-4
2.40	248-2	318-2	817-2	566-4	835-2	305-2	798-2	542-4	799-2	265-2	718-2	473-4	694-2	219-2	571-2	400-4	575-2	150-2	442-2	293-4
2.60	236-1	980-2	237-1	148-3	236-1	510-2	121-1	772-4	123-1	368-2	861-2	560-4	890-2	260-2	658-2	400-4	630-2	173-2	471-2	287-4
2.80	223-1	116-1	260-1	151-3	260-1	806-2	175-1	105-3	180-1	548-2	118-1	718-4	123-1	345-2	761-2	461-4	775-2	198-2	514-2	289-4
3.00	305-1	151-1	318-1	172-3	317-1	869-2	186-1	988-4	182-1	555-2	116-1	634-4	116-1	359-2	837-2	421-4	753-2	210-2	526-2	260-4
3.20	191-1	108-1	219-1	108-3	213-1	706-2	139-1	706-4	138-1	505-2	102-1	507-4	993-2	336-2	751-2	341-4	659-2	208-2	517-2	229-4
3.40	100-1	692-2	137-1	612-4	127-1	515-2	104-1	456-4	953-2	386-2	795-2	344-4	714-2	292-2	651-2	267-4	541-2	204-2	470-2	202-4
3.60	115-2	561-2	103-1	442-4	979-2	460-2	874-2	364-4	804-2	363-2	723-2	290-4	634-2	271-2	580-2	222-4	473-2	195-2	444-2	175-4
3.80	629-2	514-2	991-2	364-4	850-2	404-2	872-2	287-4	668-2	335-2	738-2	240-4	555-2	264-2	589-2	191-4	436-2	188-2	450-2	154-4
4.00	920-2	681-2	110-1	435-4	107-1	453-2	768-2	289-4	711-2	319-2	671-2	206-4	501-2	265-2	572-2	177-4	416-2	191-2	459-2	140-4
4.20	854-2	571-2	891-2	331-4	854-2	418-2	690-2	242-4	625-2	299-2	595-2	174-4	448-2	256-2	531-2	157-4	383-2	190-2	467-2	126-4
4.40	352-2	428-2	725-2	226-4	611-2	377-2	636-2	199-4	539-2	314-2	536-2	167-4	449-2	249-2	496-2	137-4	356-2	184-2	474-2	116-4
4.60	208-2	500-2	780-2	241-4	683-2	415-2	694-2	201-4	568-2	327-2	596-2	160-4	447-2	248-2	502-2	123-4	339-2	189-2	479-2	108-4
4.80	328-2	518-2	880-2	230-4	678-2	438-2	752-2	194-4	573-2	355-2	621-2	159-4	464-2	272-2	505-2	125-4	357-2	196-2	483-2	104-4
5.00	526-2	586-2	811-2	239-4	736-2	464-2	699-2	190-4	583-2	368-2	585-2	152-4	463-2	278-2	507-2	119-4	349-2	197-2	486-2	991-5
5.50	638-2	566-2	675-2	191-4	646-2	410-2	601-2	138-4	468-2	305-2	549-2	103-4	348-2	235-2	504-2	848-5	269-2	183-2	488-2	830-5
6.00	169-2	300-2	556-2	852-5	314-2	279-2	537-2	796-5	292-2	252-2	509-2	726-5	264-2	216-2	498-2	646-5	226-2	172-2	486-2	660-5
6.50	276-2	284-2	496-2	688-5	274-2	248-2	496-2	601-5	239-2	222-2	494-2	548-5	215-2	215-2	491-2	546-5	207-2	182-2	484-2	571-5
7.00	407-2	468-2	486-2	977-5	420-2	336-2	487-2	704-5	302-2	252-2	486-2	536-5	226-2	226-2	485-2	498-5	202-2	187-2	480-2	528-5
7.50	343-2	475-2	479-2	864-5	398-2	344-2	480-2	626-5	288-2	271-2	480-2	501-5	227-2	231-2	480-2	451-5	193-2	186-2	477-2	487-5
8.00	200-2	343-2	475-2	548-5	269-2	285-2	475-2	457-5	224-2	254-2	475-2	411-5	199-2	219-2	476-2	380-5	172-2	179-2	474-2	450-5

RELATIVE VELOCITY RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN191 71.119.0 2516 VIA TEJON, GROUND LEVEL, PALOS VERDES ESTATES, CAL. COMP N65E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

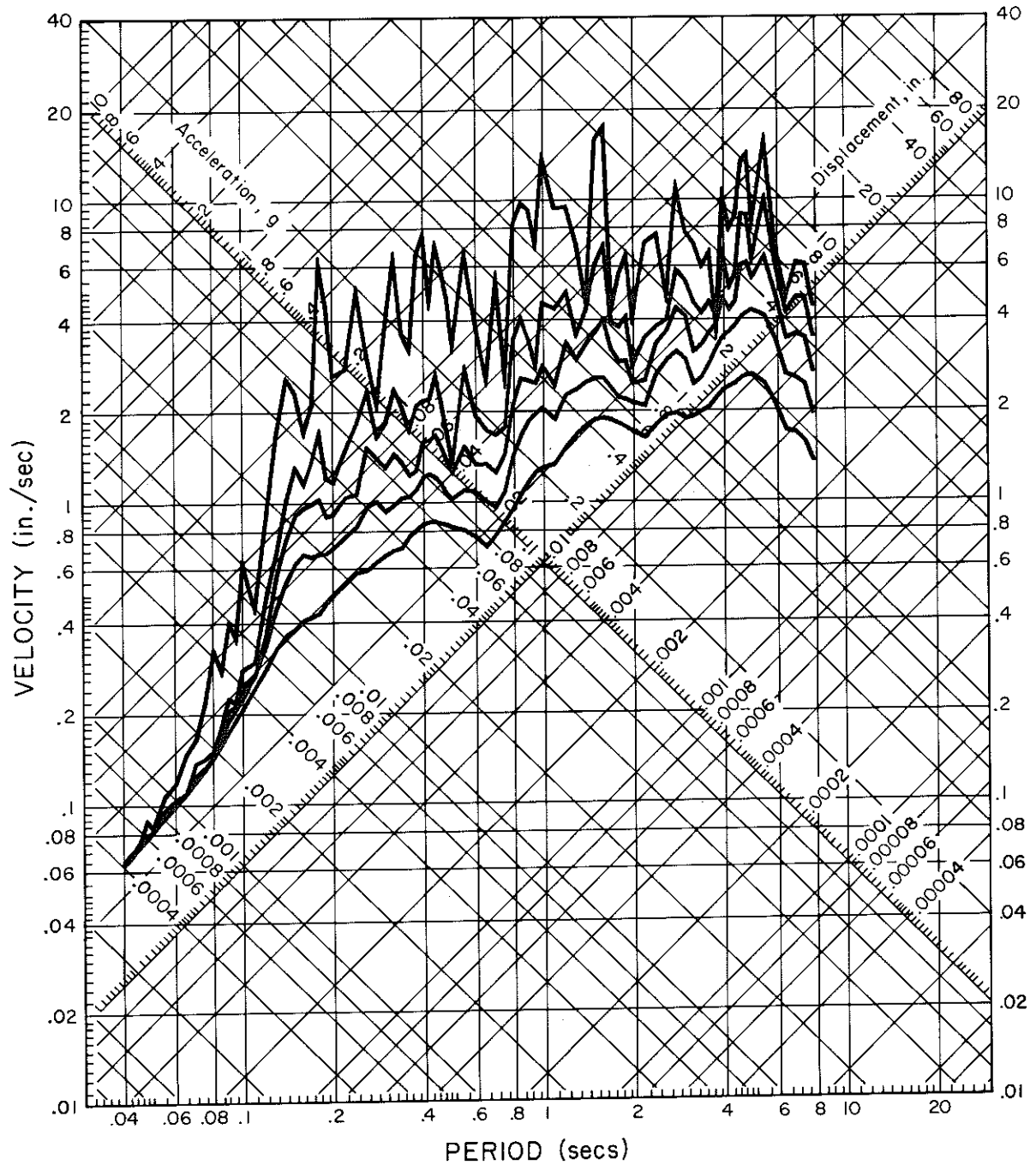


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN191 71.119.0 2516 VIA TEJON, GROUND LEVEL, PALOS VERDES ESTATES, CAL. COMP N65E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



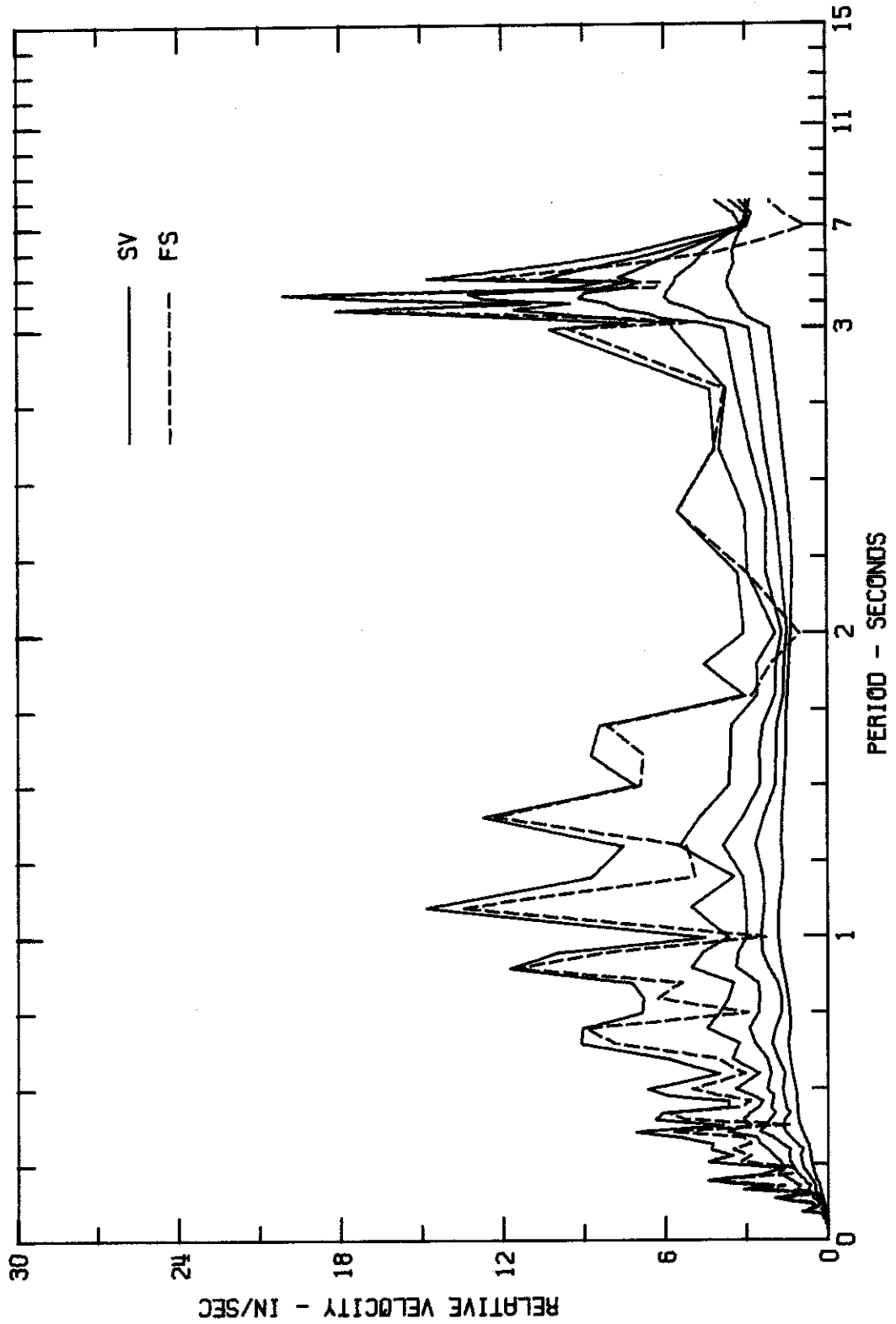
71.119.0 2516 VIA TEJON, GROUND LEVEL, PALUS VERDES ESTATES, CAL. COMP N65E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	261-5	408-6	132-4	260-4	641-4	405-6	125-4	259-4	637-4	403-6	122-4	258-4	633-4	401-6	119-4	257-4	631-4
0.042	360-5	454-6	143-4	263-4	679-4	446-6	136-4	258-4	668-4	446-6	136-4	258-4	666-4	445-6	134-4	258-4	664-4
0.044	495-5	498-6	156-4	263-4	711-4	483-6	155-4	258-4	699-4	491-6	153-4	260-4	702-4	491-6	151-4	259-4	702-4
0.046	571-5	567-6	190-4	274-4	775-4	543-6	170-4	264-4	747-4	543-6	171-4	262-4	742-4	541-6	169-4	261-4	739-4
0.048	213-4	674-6	300-4	299-4	823-4	603-6	194-4	268-4	790-4	596-6	192-4	264-4	781-4	592-6	190-4	263-4	775-4
0.050	862-5	658-6	265-4	269-4	887-4	633-6	232-4	260-4	801-4	645-6	218-4	264-4	810-4	645-6	213-4	264-4	811-4
0.055	395-4	933-6	476-4	315-4	106-3	836-6	287-4	282-4	955-4	814-6	281-4	275-4	930-4	797-6	272-4	270-4	910-4
0.060	143-4	112-5	543-4	320-4	118-3	990-6	361-4	281-4	103-3	972-6	347-4	276-4	101-3	961-6	340-4	272-4	100-3
0.065	105-3	152-5	107-3	370-4	147-3	112-5	396-4	272-4	108-3	112-5	403-4	272-4	109-3	112-5	419-4	273-4	109-3
0.070	730-4	185-5	102-3	386-4	166-3	152-5	738-4	318-4	137-3	139-5	596-4	290-4	124-3	133-5	532-4	279-4	120-3
0.075	982-4	262-5	141-3	476-4	219-3	163-5	685-4	307-4	141-3	158-5	688-4	286-4	132-3	156-5	650-4	284-4	130-3
0.080	130-3	412-5	253-3	659-4	324-3	191-5	984-4	306-4	150-3	182-5	831-4	293-4	143-3	185-5	766-4	298-4	145-3
0.085	136-3	371-5	227-3	525-4	274-3	244-5	129-3	346-4	180-3	238-5	944-4	337-4	176-3	225-5	866-4	322-4	166-3
0.090	216-3	574-5	314-3	626-4	401-3	322-5	126-3	406-4	224-3	292-5	104-3	367-4	203-3	271-5	966-4	341-4	189-3
0.095	278-3	533-5	302-3	604-4	352-4	327-5	145-3	371-4	131-2	323-5	120-3	366-4	213-3	313-5	106-3	358-4	207-3
0.100	448-3	999-5	560-3	102-3	628-3	445-5	193-3	454-4	279-3	384-5	134-3	394-4	241-3	358-5	123-3	373-4	225-3
0.110	200-3	782-5	404-3	661-4	447-3	519-5	237-3	439-4	296-3	469-5	188-3	400-4	268-3	469-5	175-3	399-4	268-3
0.120	583-3	175-4	841-3	124-3	919-3	935-5	399-3	661-4	489-3	697-5	290-3	492-4	365-3	648-5	245-3	458-4	339-3
0.130	120-2	355-4	160-2	215-3	171-2	142-4	572-3	658-4	687-3	118-4	452-3	718-4	573-3	926-5	345-3	577-4	448-3
0.140	252-2	577-4	256-2	301-3	259-2	228-4	965-3	119-3	102-2	169-4	695-3	893-4	760-3	122-4	477-3	660-4	549-3
0.150	202-2	553-4	223-2	251-3	231-2	314-4	121-2	143-3	131-2	219-4	840-3	101-3	919-3	151-4	571-3	699-4	634-3
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0.170	202-2	574-4	206-2	203-3	212-2	372-4	130-2	132-3	137-2	269-4	956-3	961-4	994-3	179-4	621-3	593-4	661-3
0.180	607-2	178-3	614-2	563-3	622-2	490-4	170-2	155-3	171-2	296-4	995-3	936-4	103-2	194-4	672-3	633-4	677-3
0.190	428-2	137-3	446-2	389-3	454-2	366-4	116-2	103-3	121-2	272-4	846-3	775-4	901-3	205-4	631-3	593-4	679-3
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0.260	181-2	126-3	314-2	191-3	305-2	974-4	226-2	147-3	235-2	633-4	142-2	975-4	153-2	403-4	877-3	614-4	975-3
0.280	512-3	946-4	216-2	123-3	212-2	739-4	175-2	972-4	166-2	628-4	140-2	832-4	140-2	451-4	996-3	588-4	950-3
0.300	235-2	192-3	378-2	218-3	402-2	891-4	202-2	101-3	186-2	626-4	141-2	720-4	131-2	446-4	956-3	518-4	935-3
0.320	481-2	328-3	647-2	328-3	645-2	121-3	221-2	120-3	238-2	743-4	129-2	738-4	146-2	501-4	956-3	512-4	983-3
0.340	219-2	196-3	364-2	173-3	362-2	112-3	211-2	992-4	208-2	735-4	139-2	657-4	135-2	563-4	928-3	504-4	104-2
0.360	71-2	183-3	310-2	144-3	320-2	100-3	162-2	787-4	174-2	706-4	137-2	564-4	123-2	601-4	978-3	479-4	105-2
0.380	647-2	406-3	667-2	288-3	672-2	127-3	201-2	907-4	211-2	774-4	125-2	549-4	128-2	671-4	101-2	486-4	111-2
0.400	714-2	494-3	760-2	316-3	777-2	139-3	216-2	891-4	219-2	101-3	154-2	651-4	160-2	776-4	110-2	501-4	122-2
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0.440	566-2	501-3	707-2	264-3	715-2	186-3	257-2	981-4	266-2	117-3	163-2	629-4	168-2	849-4	112-2	461-4	121-2
0.460	514-2	435-3	580-2	210-3	595-2	158-3	206-2	766-4	216-2	111-3	136-2	544-4	152-2	845-4	109-2	475-4	105-2
0.480	386-2	366-3	456-2	162-3	479-2	131-3	165-2	581-4	171-2	105-3	131-2	471-4	138-2	816-4	103-2	372-4	106-2
0.500	248-2	265-3	304-2	108-3	333-2	107-3	143-2	443-4	135-2	100-3	127-2	414-4	125-2	820-4	986-3	344-4	103-2
0.550	587-2	585-3	665-2	198-3	669-2	243-3	266-2	823-4	277-2	134-3	156-2	461-4	154-2	967-4	112-2	335-4	110-2
0.600	223-2	370-3	367-2	105-3	387-2	185-3	189-2	530-4	194-2	127-3	137-2	362-4	133-2	103-3	119-2	301-4	108-2
0.650	103-2	263-3	249-2	638-4	254-2	179-3	183-2	437-4	173-2	138-3	149-2	337-4	134-2	104-3	120-2	257-4	100-2
0.700	498-2	608-3	536-2	127-3	546-2	187-3	164-2	390-4	168-2	140-3	126-2	293-4	125-2	107-3	102-2	227-4	964-3

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
71.119.0 2516 VIA TEJON, GROUND LEVEL, PALOS VERDES ESTATES, CAL. COMP S25E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

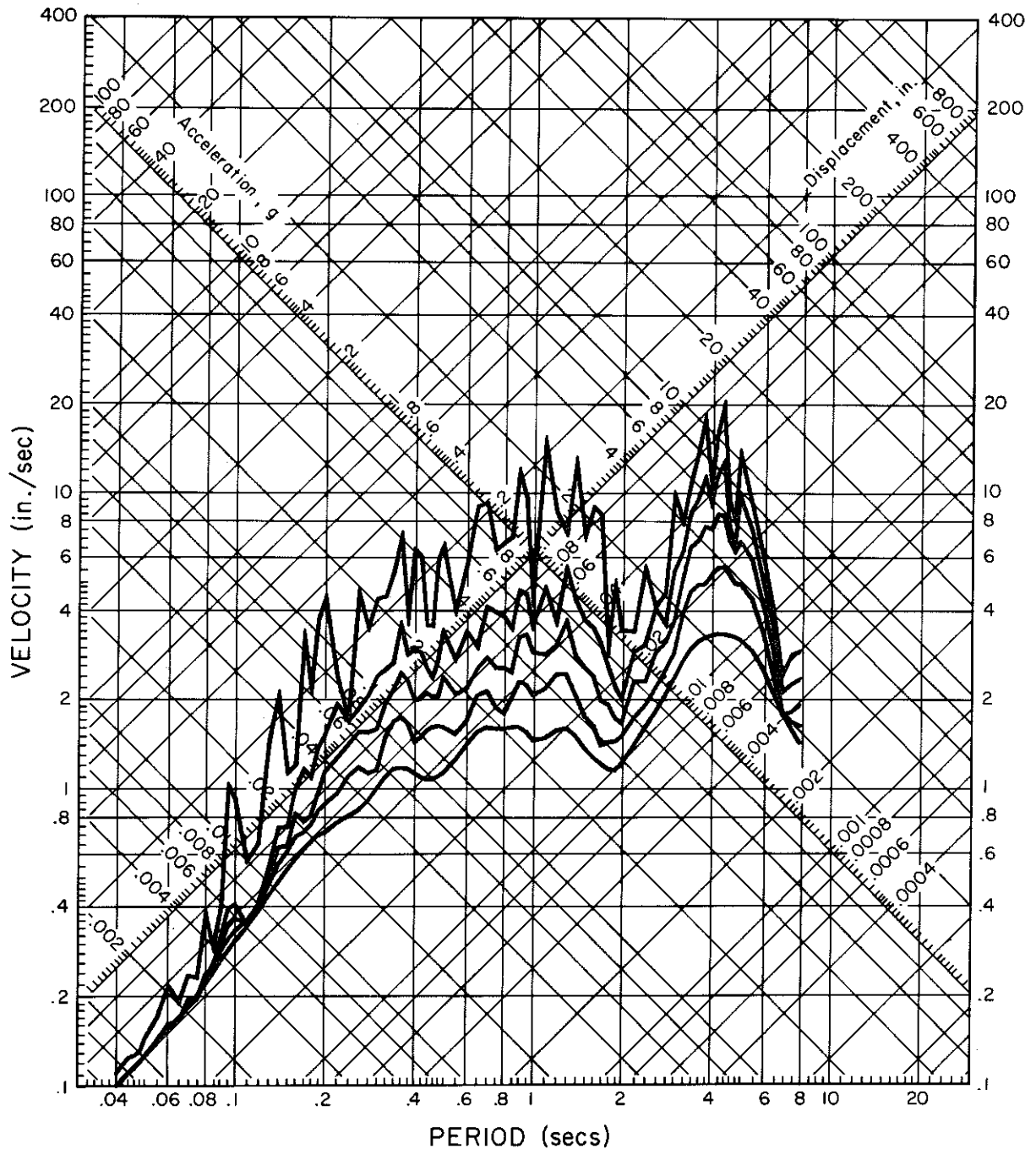


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN191 71.119.0 2516 VIA TEJON, GROUND LEVEL, PALOS VERDES ESTATES, CAL. COMP S25E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

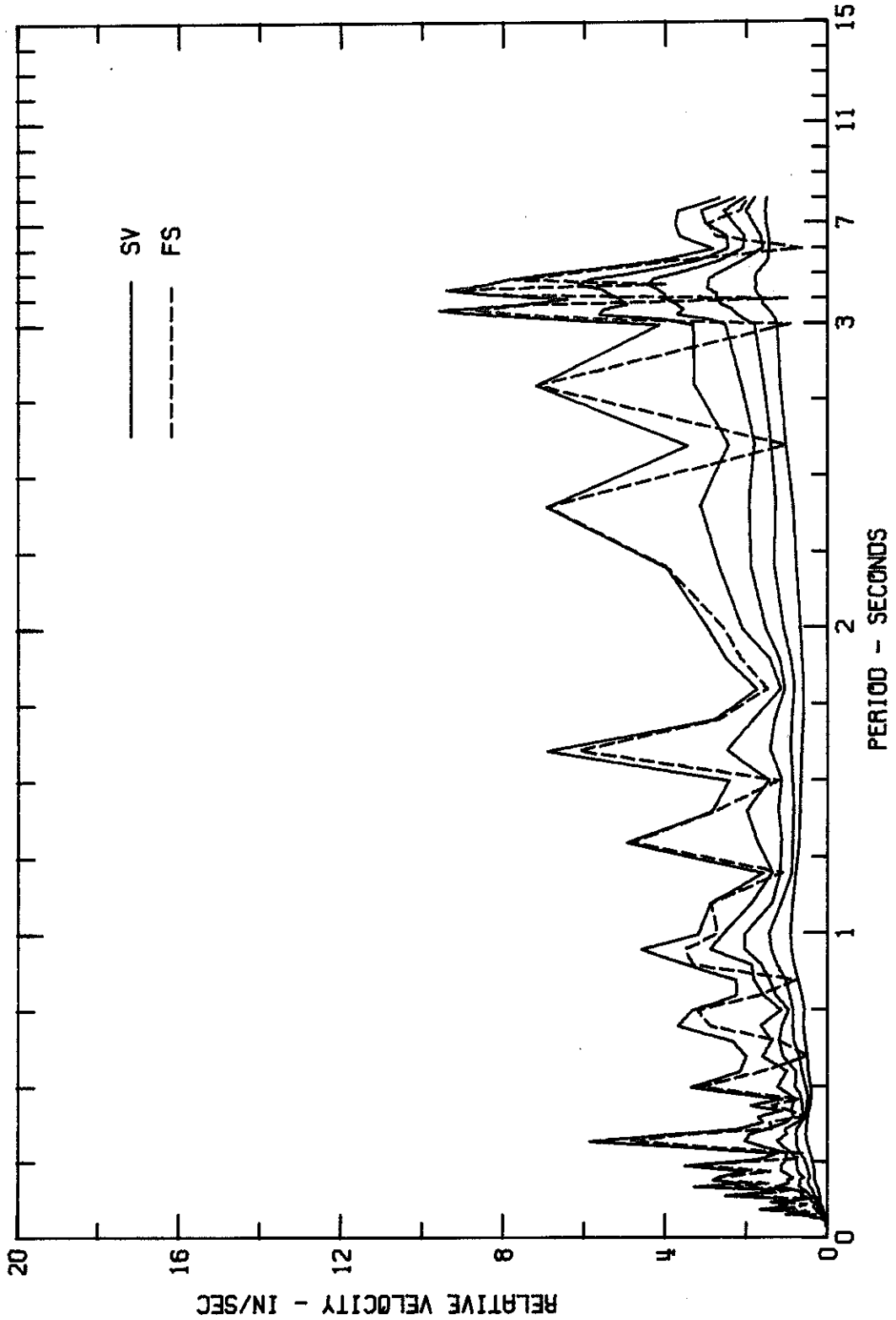


IIIN191 71.119.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
2516 VIA TEJON, GROUND LEVEL, PALOS VERDES ESTATES, CAL. COMP S25E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	165-4	705-6	272-4	450-4	110-3	641-6	149-4	410-4	100-3	641-6	145-4	410-4	100-3	641-6	144-4	410-4	100-3
0.042	146-4	793-6	278-4	460-4	118-3	704-6	161-4	408-4	105-3	708-6	160-4	410-4	105-3	708-6	159-4	411-4	106-3
0.044	148-4	880-6	309-4	465-4	125-3	779-6	173-4	411-4	111-3	778-6	176-4	411-4	111-3	779-6	175-4	412-4	111-3
0.046	161-4	937-6	335-4	453-4	128-3	847-6	198-4	409-4	115-3	849-6	194-4	410-4	116-3	852-6	192-4	411-4	116-3
0.048	181-5	100-5	298-4	446-4	131-3	928-6	206-4	412-4	121-3	928-6	209-4	413-4	121-3	932-6	209-4	414-4	122-3
0.050	394-4	116-5	404-4	476-4	146-3	101-5	221-4	415-4	127-3	101-5	228-4	413-4	127-3	101-5	227-4	416-4	127-3
0.055	523-4	150-5	700-4	510-4	172-3	126-5	277-4	426-4	144-3	124-5	273-4	421-4	142-3	124-5	277-4	420-4	141-3
0.060	851-4	209-5	908-4	594-4	219-3	155-5	374-4	443-4	163-3	151-5	340-4	430-4	158-3	150-5	324-4	426-4	157-3
0.065	280-4	198-5	815-4	481-4	192-3	172-5	475-4	416-4	166-3	176-5	416-4	428-4	170-3	177-5	405-4	430-4	171-3
0.070	927-4	264-5	156-3	552-4	237-3	220-5	501-4	459-4	197-3	205-5	509-4	430-4	184-3	206-5	512-4	431-4	185-3
0.075	166-3	278-5	173-3	506-4	233-3	237-5	834-4	431-4	199-3	235-5	751-4	429-4	197-3	239-5	803-4	465-4	207-3
0.080	186-3	486-5	206-3	777-4	381-3	305-5	905-4	488-4	240-3	296-5	882-4	473-4	233-3	289-5	803-4	465-4	222-3
0.085	902-4	397-5	215-3	563-4	294-3	343-5	104-3	486-4	253-3	353-5	101-3	501-4	261-3	345-5	938-4	491-4	255-3
0.090	748-4	580-5	257-3	732-4	405-3	463-5	146-3	585-4	323-3	436-5	129-3	553-4	304-3	410-5	109-3	518-4	286-3
0.095	918-3	155-4	979-3	176-3	103-2	602-5	203-3	684-4	398-3	526-5	146-3	599-4	348-3	476-5	118-3	544-4	314-3
0.100	746-3	147-4	745-3	150-3	926-3	656-5	252-3	669-4	412-3	587-5	150-3	598-4	369-3	436-5	120-3	545-4	336-3
0.110	365-3	100-4	460-3	847-4	572-3	614-5	214-3	518-4	350-3	623-5	161-3	529-4	356-3	637-5	132-3	541-4	363-3
0.120	323-3	126-4	552-3	896-4	661-3	791-5	256-3	561-4	414-3	785-5	196-3	559-4	411-3	782-5	159-3	560-4	409-3
0.130	123-2	298-4	142-2	180-3	144-2	112-4	423-3	679-4	542-3	102-4	301-3	616-4	493-3	989-5	213-3	606-4	478-3
0.140	189-2	463-4	200-2	242-3	208-2	165-4	582-3	695-4	744-3	142-4	413-3	740-4	640-3	125-4	289-3	656-4	564-3
0.150	603-3	271-4	103-2	123-3	113-2	179-4	612-3	811-4	750-3	154-4	520-3	703-4	645-3	148-4	387-3	686-4	622-3
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0.170	277-2	889-4	317-2	314-3	328-2	318-4	113-2	992-4	110-2	233-4	689-3	742-4	816-3	219-4	494-3	697-4	764-3
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0.190	325-2	115-3	372-2	326-3	381-2	418-4	128-2	118-3	138-2	294-4	819-3	837-4	972-3	257-4	547-3	736-4	851-3
0.200	444-2	142-3	440-2	364-3	448-2	486-4	138-2	124-3	152-2	367-4	891-3	957-4	115-2	283-4	622-3	754-4	891-3
0.220	113-2	846-4	233-2	178-3	241-2	682-4	184-2	145-3	194-2	446-4	115-2	938-4	127-2	339-4	768-3	720-4	969-3
0.240	127-2	662-4	170-2	117-3	173-2	647-4	160-2	115-3	169-2	544-4	142-2	966-4	142-2	426-4	931-3	758-4	111-2
0.260	323-2	192-3	446-2	290-3	464-2	780-4	179-2	118-3	188-2	649-4	142-2	972-4	156-2	493-4	101-2	744-4	119-2
0.280	286-2	157-3	353-2	205-3	354-2	933-4	201-2	121-3	209-2	693-4	146-2	912-4	155-2	508-4	103-2	670-4	114-2
0.300	352-2	213-3	434-2	242-3	447-2	116-3	223-2	131-3	244-2	767-4	142-2	871-4	160-2	558-4	941-3	642-4	116-2
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0.380	138-2	236-3	388-2	167-3	390-2	174-3	286-2	123-3	287-2	140-3	231-2	991-4	232-2	100-3	168-2	717-4	165-2
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0.500	503-2	538-3	668-2	220-3	676-2	275-3	343-2	112-3	346-2	192-3	227-2	792-4	241-2	129-3	170-2	543-4	162-2
0.550	308-2	353-3	399-2	119-3	403-2	242-3	254-2	820-4	277-2	183-3	210-2	828-4	210-2	134-3	159-2	465-4	154-2
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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIIN191 71.119.0 2516 VIA TEJON, GROUND LEVEL, PALOS VERDES ESTATES, CAL. COMP DOWN
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

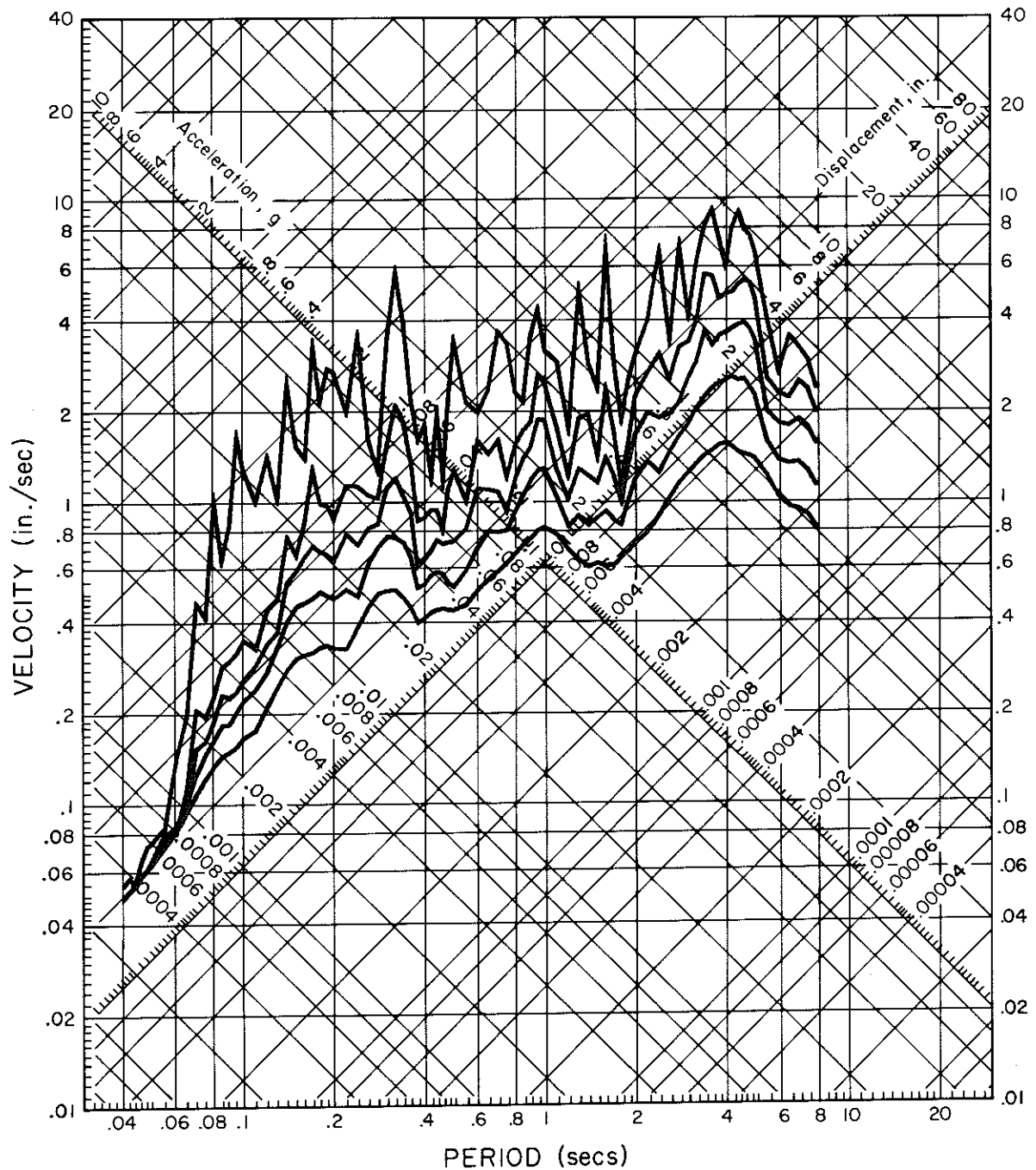


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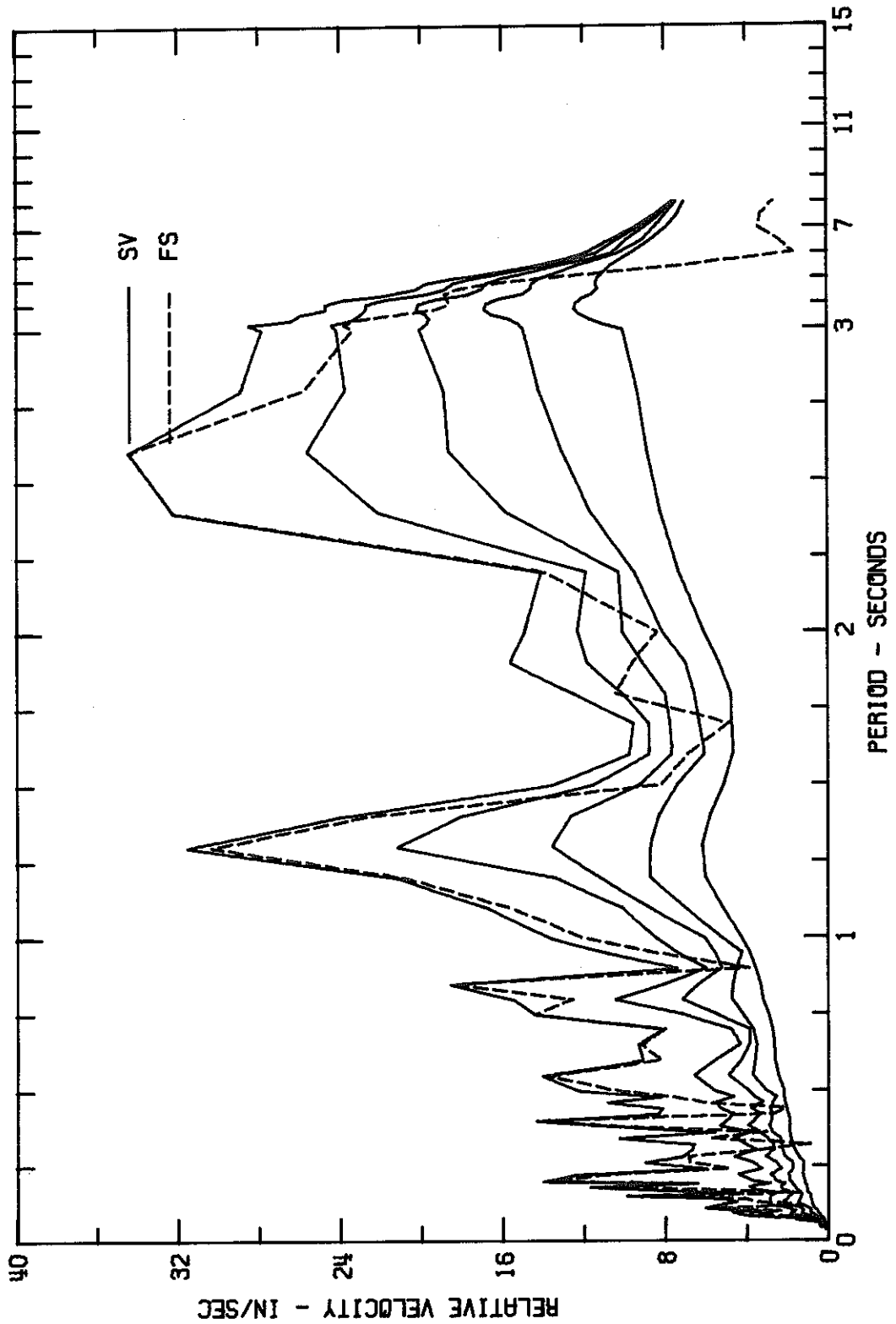
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111N191 71.119.0 2516 VIA TEJON, GROUND LEVEL, PALOS VERDES ESTATES, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111N192 71.129.0 2500 WILSHIRE BLVD., BASEMENT, LOS ANGELES, CAL. COMP N29E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

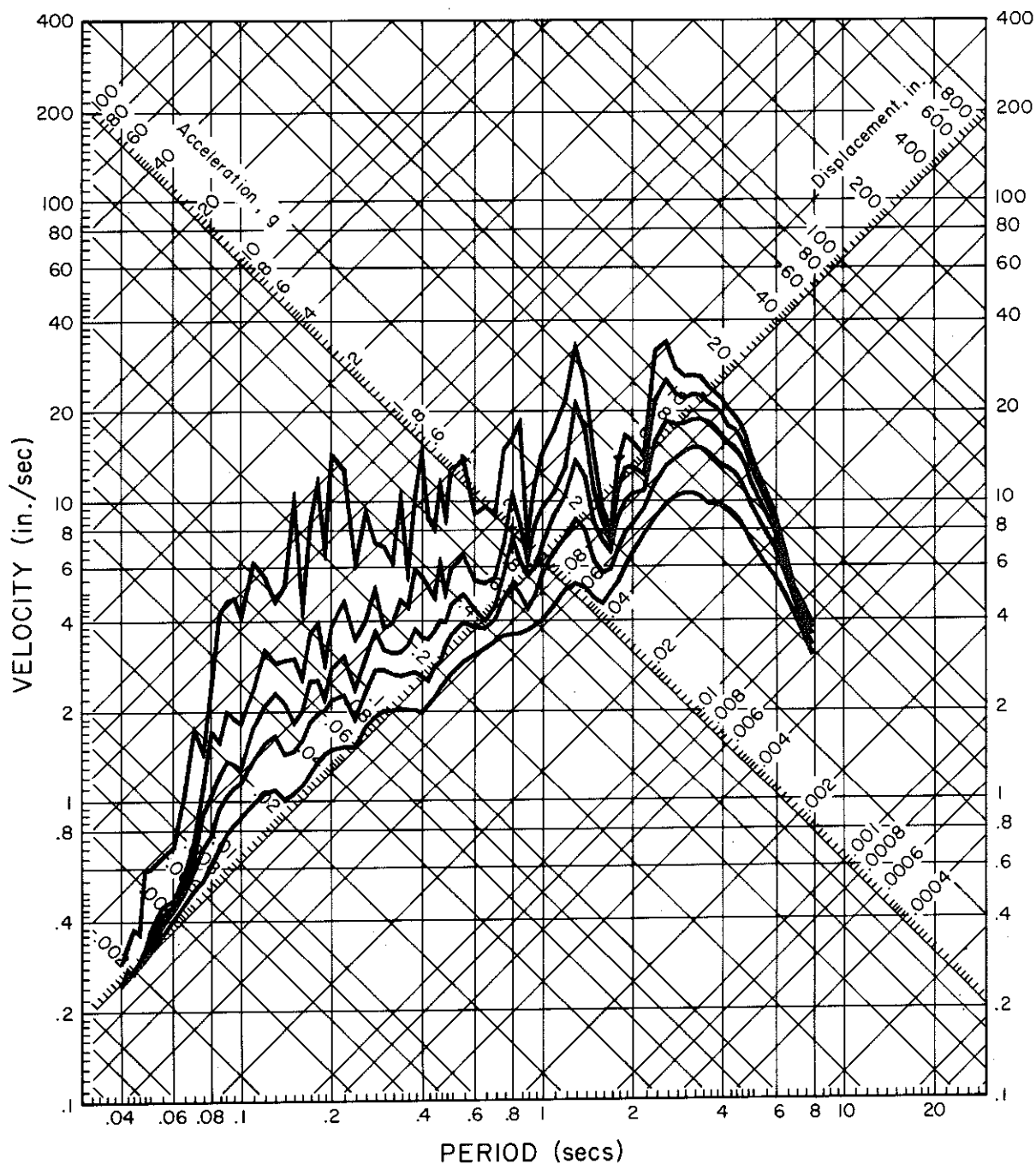


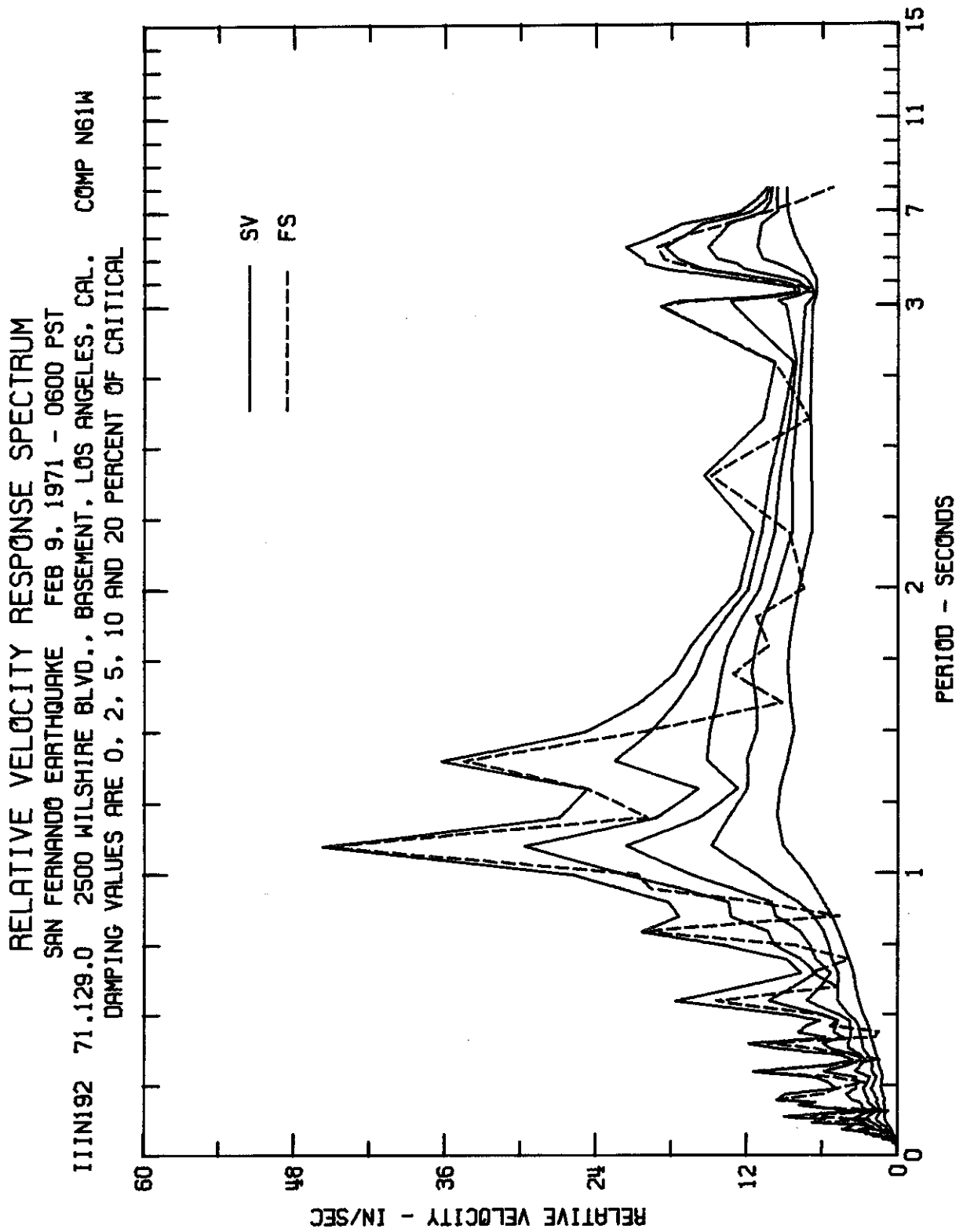
RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



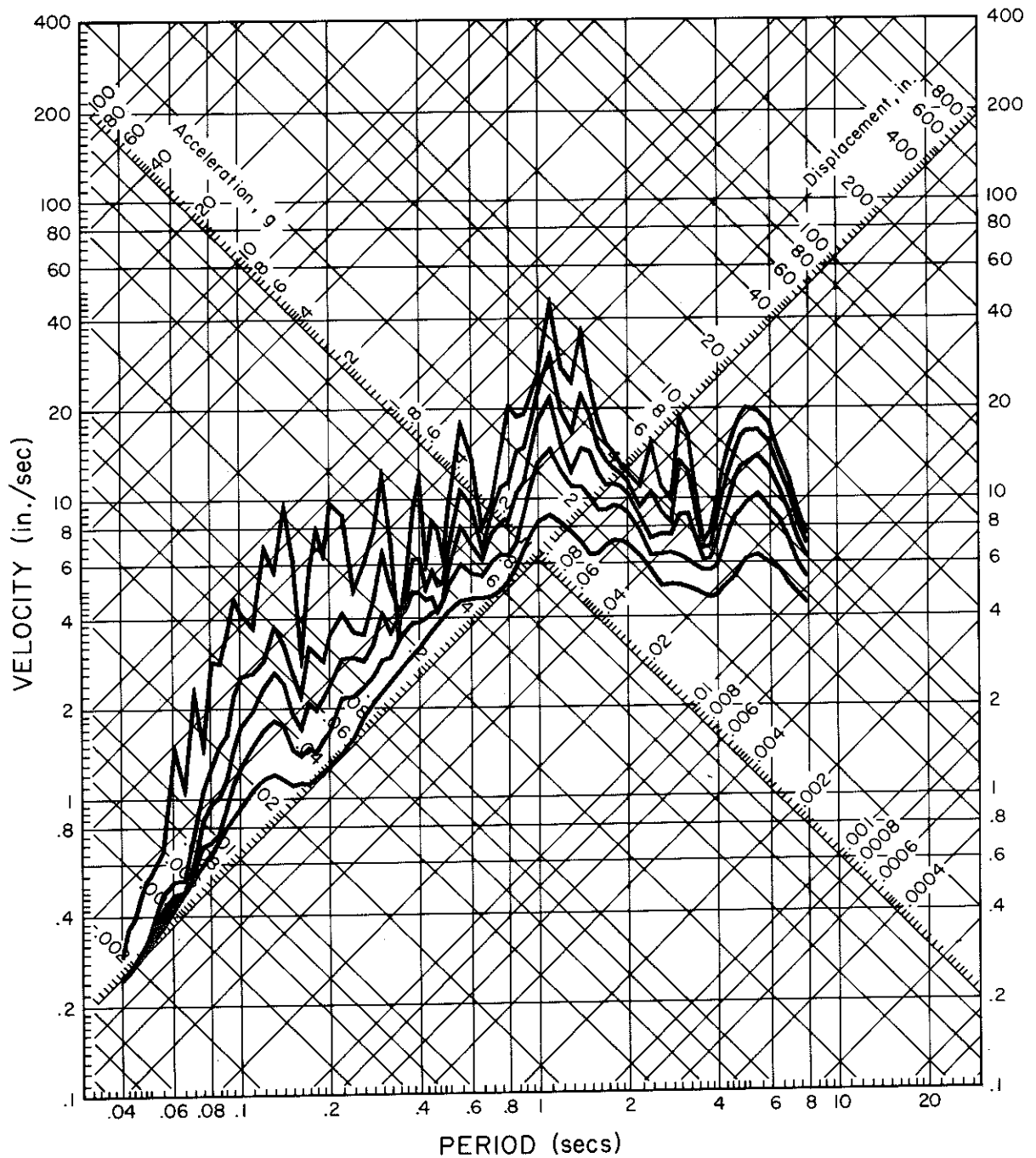


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

11IN192 71.129.0 2500 WILSHIRE BLVD.. BASEMENT, LOS ANGELES, CAL. COMP N61W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



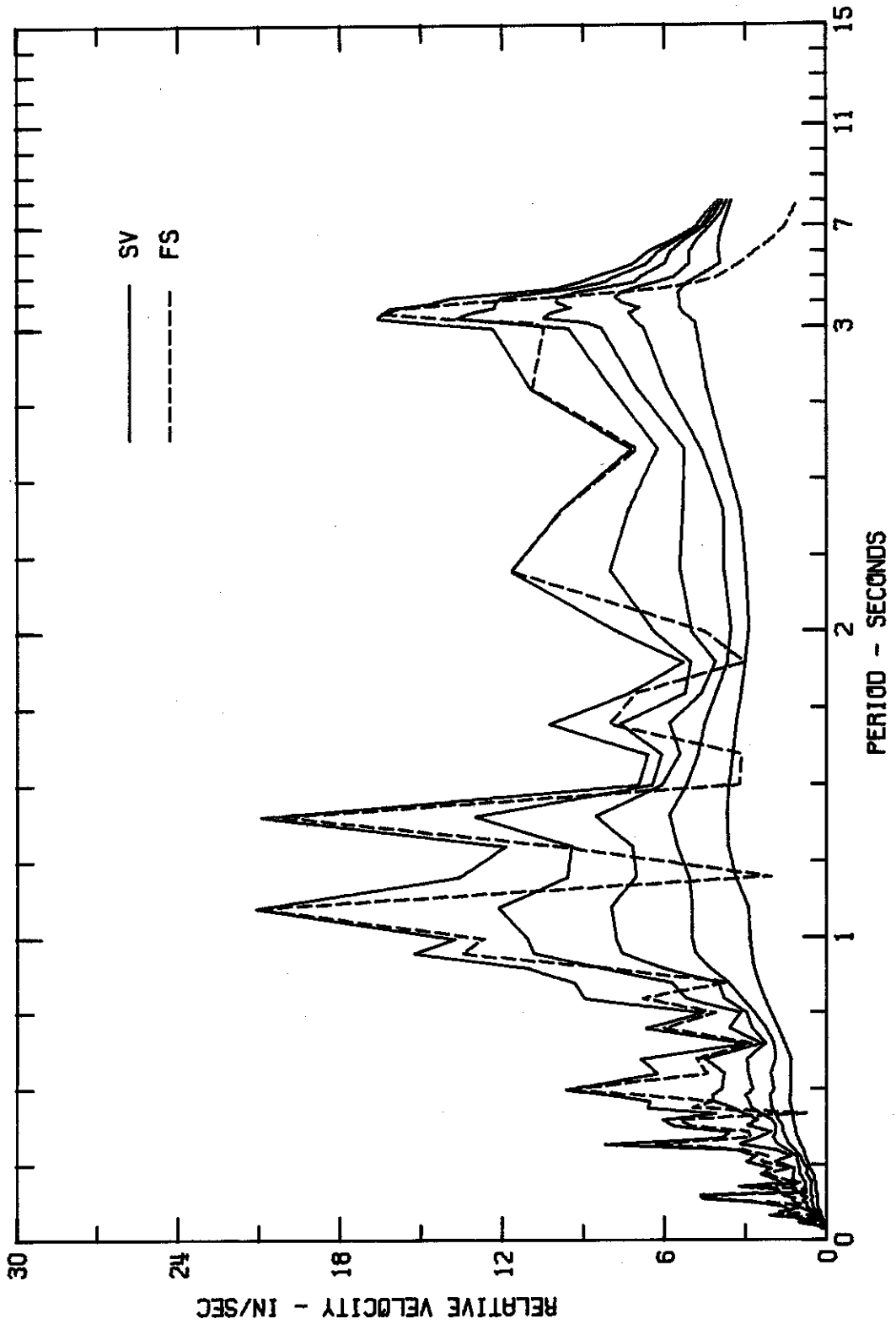
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN192 71.129.0 2500 WILSHIRE BLVD., BASEMENT, LOS ANGELES, CAL. CUMP N61M

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

		DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT			
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	715-4	187-5	138-3	119-3	294-3	161-5	111-3	103-3	253-3	158-5	965-4	100-3	248-3	157-5	877-4	100-3	248-3	158-5	798-4	101-3	248-3
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0.048	138-3	402-5	382-3	178-3	527-3	249-5	132-3	110-3	326-3	239-5	113-3	106-3	313-3	235-5	120-3	104-3	308-3	236-5	115-3	105-3	309-3
0.050	264-3	440-5	342-3	180-3	553-3	289-5	153-3	118-3	363-3	266-5	134-3	109-3	335-3	261-5	131-3	107-3	328-3	260-5	126-3	107-3	327-3
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0.075	135-2	179-4	135-2	326-3	150-2	128-4	693-3	235-3	107-2	101-4	618-3	186-3	850-3	821-5	466-3	150-3	693-3	717-5	334-3	132-3	601-3
0.080	228-2	369-4	252-2	590-3	290-2	163-4	112-2	262-3	128-2	123-4	793-3	198-3	970-3	912-5	556-3	148-3	716-3	838-5	391-3	138-3	658-3
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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIIN192 71.129.0 2500 WILSHIRE BLVD., BASEMENT, LOS ANGELES, CAL. COMP DOWN
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

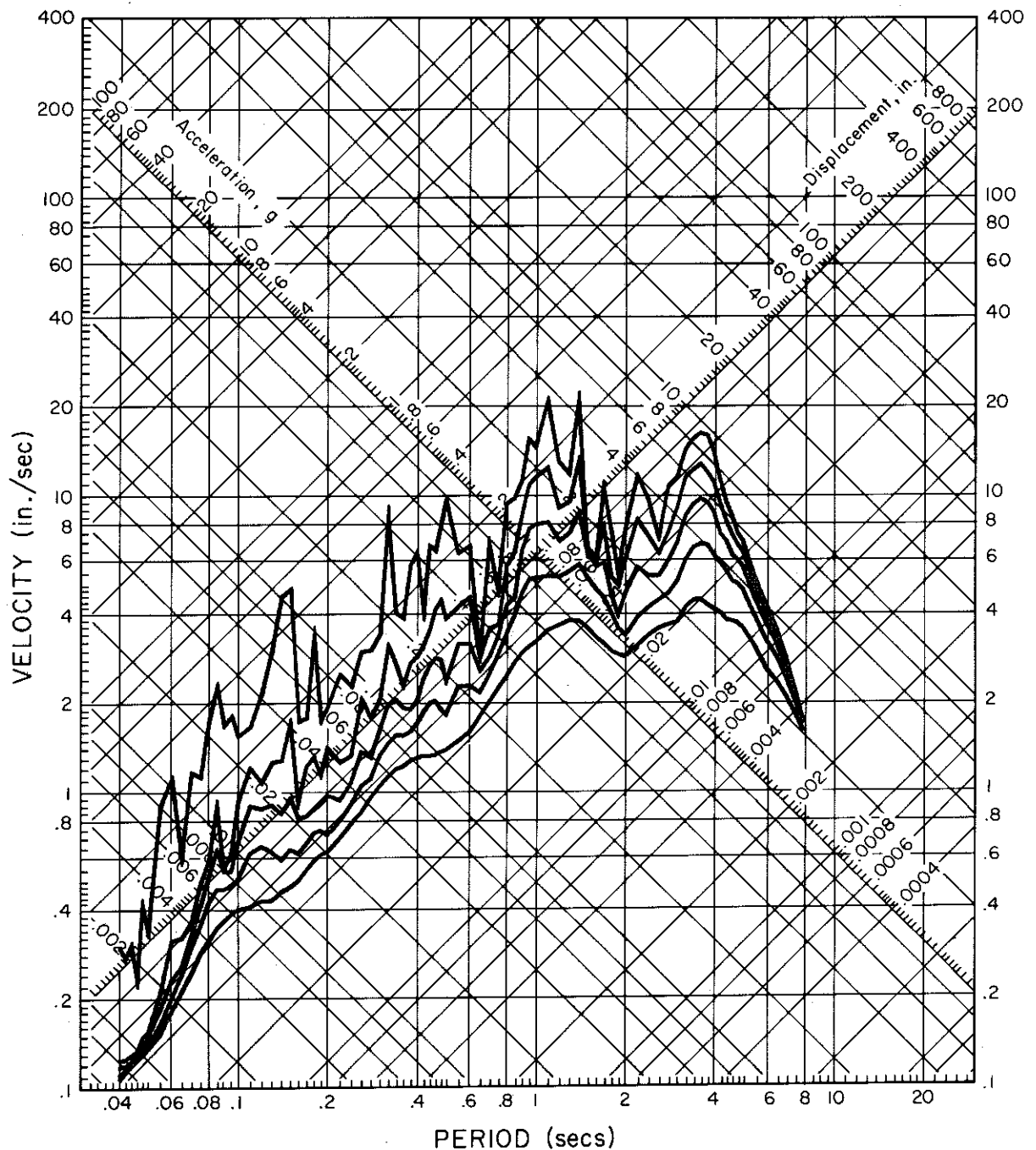


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111N192 71.129.0 2500 WILSHIRE BLVD., BASEMENT, LOS ANGELES, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

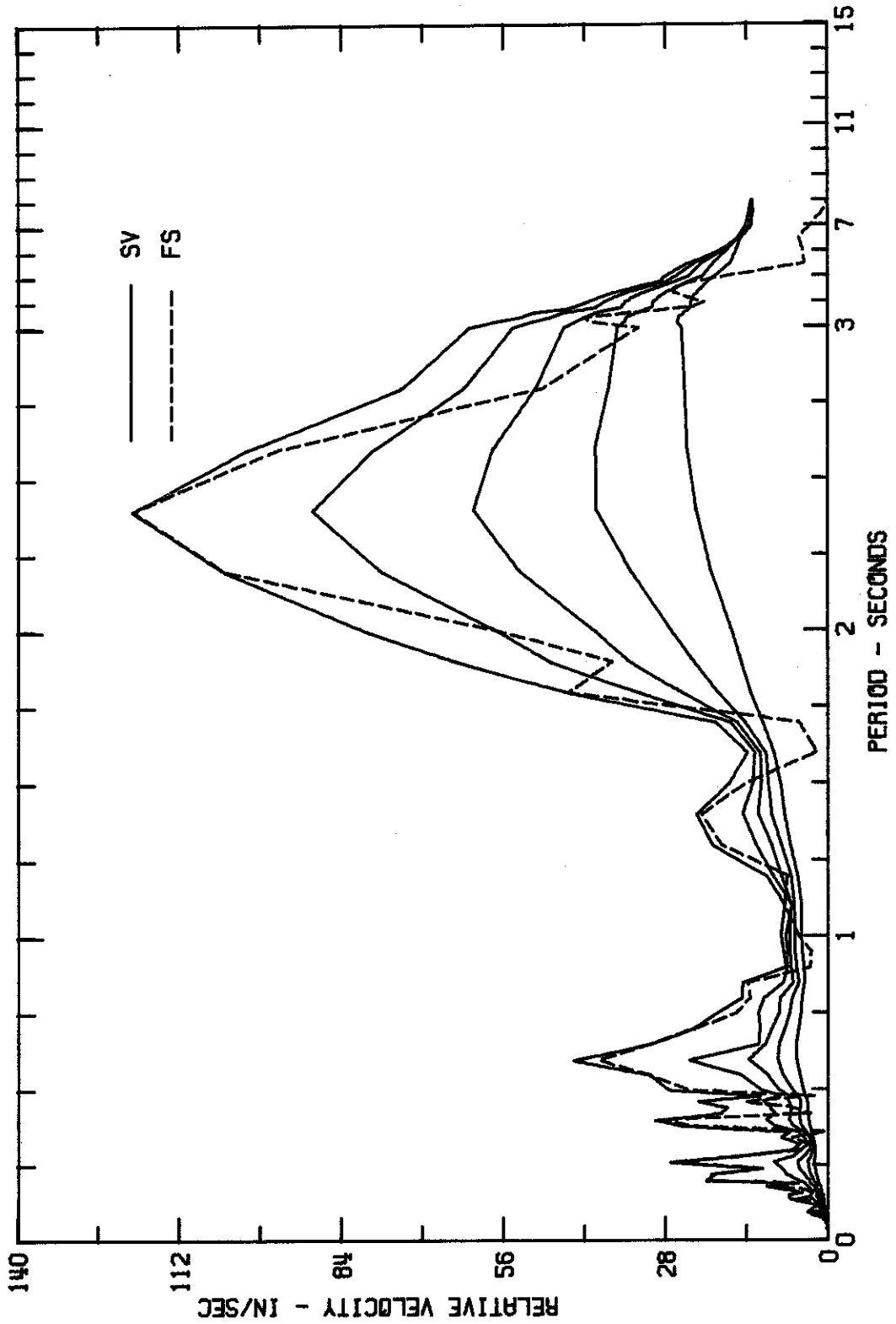


111N192 71.129.0 2500 WILSHIRE BLVD., BASEMENT, LOS ANGELES, CAL. CUMP DOWN

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT					
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0.85	359-2	134-2	935-2	190-3	994-2	889-3	575-2	125-3	657-2	624-3	403-2	885-4	461-2	547-3	365-2	786-4	404-2	375-3	254-2	559-4	277-2
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1.50	323-2	149-2	693-2	680-4	627-2	160-2	643-2	728-4	671-2	153-2	608-2	701-4	642-2	126-2	516-2	586-4	531-2	867-3	360-2	432-4	363-2
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8.00	108-2	224-2	399-2	359-5	176-2	222-2	393-2	358-5	174-2	222-2	384-2	368-5	174-2	219-2	368-2	407-5	172-2	206-2	351-2	483-5	162-2

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111N193 71.130.0 2500 WILSHIRE BLVD., 8TH FLOOR, LOS ANGELES, CAL. COMP N29E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

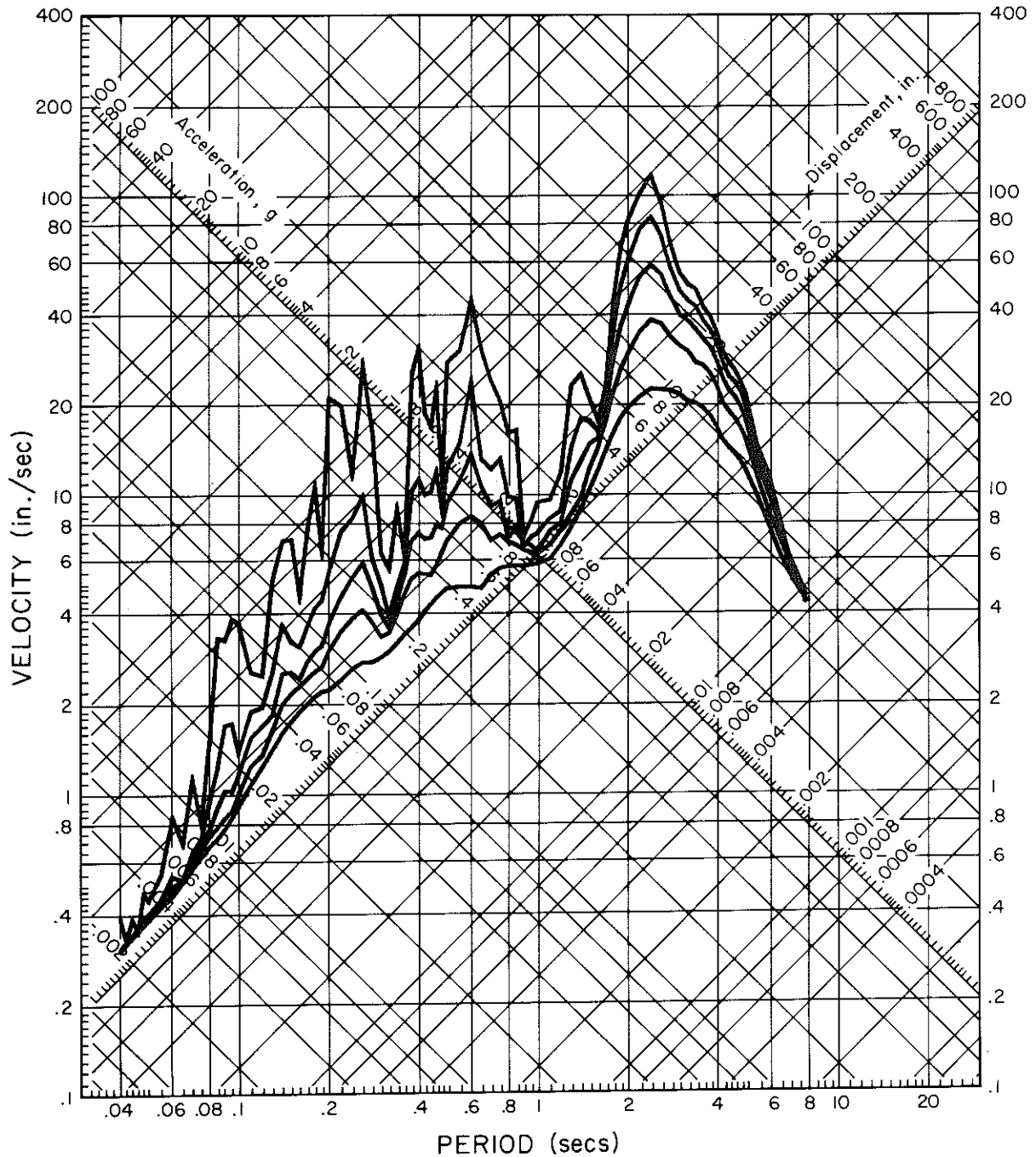


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN193 71.130.0 2500 WILSHIRE BLVD., 8TH FLOOR, LOS ANGELES, CAL. COMP N29E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN193 71.130.0 2500 WILSHIRE BLVD., 8TH FLOOR, LOS ANGELES, CAL. COMP N29E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	161-3	251-5	160-3	161-3	395-3	196-5	668-4	125-3	308-3	193-5	633-4	123-3	304-3	194-5	607-4	124-3	305-3
0.042	107-3	222-5	714-4	128-3	332-3	221-5	690-4	126-3	330-3	217-5	676-4	126-3	326-3	216-5	666-4	125-3	324-3
0.044	111-3	275-5	152-3	145-3	393-3	239-5	787-4	128-3	342-3	241-5	735-4	127-3	345-3	240-5	730-4	127-3	343-3
0.046	136-3	260-5	102-3	125-3	355-3	274-5	893-4	132-3	374-3	269-5	839-4	130-3	368-3	265-5	802-4	128-3	362-3
0.048	195-3	365-5	187-3	162-3	477-3	303-5	943-4	134-3	396-3	296-5	904-4	131-3	388-3	290-5	869-4	129-3	380-3
0.050	220-3	360-5	201-3	147-3	452-3	325-5	113-3	132-3	408-3	321-5	938-4	131-3	403-3	316-5	936-4	130-3	397-3
0.055	200-3	485-5	215-3	163-3	554-3	399-5	126-3	135-3	456-3	393-5	119-3	132-3	449-3	387-5	119-3	130-3	442-3
0.060	349-3	815-5	486-3	231-3	853-3	520-5	205-3	148-3	545-3	484-5	178-3	137-3	506-3	457-5	159-3	130-3	479-3
0.065	214-3	720-5	385-3	174-3	696-3	545-5	235-3	132-3	527-3	541-5	228-3	131-3	523-3	545-5	208-3	132-3	527-3
0.070	762-3	128-4	911-3	267-3	114-2	728-5	113-3	132-3	408-3	321-5	938-4	131-3	403-3	316-5	936-4	130-3	397-3
0.075	183-3	968-5	555-3	176-3	811-3	867-5	445-3	158-3	726-3	838-5	382-3	152-3	702-3	794-5	338-3	146-3	665-3
0.080	238-3	199-4	142-2	318-3	156-2	123-4	810-3	197-3	970-3	997-5	622-3	159-3	783-3	940-5	462-3	150-3	738-3
0.085	245-2	458-4	286-2	649-3	339-2	168-4	115-2	238-3	124-2	125-4	820-3	178-3	927-3	107-4	584-3	153-3	794-3
0.090	154-2	475-4	310-2	600-3	332-2	248-4	160-2	312-3	173-2	150-4	978-3	189-3	104-2	121-4	655-3	154-3	850-3
0.095	293-2	591-4	365-2	670-3	391-2	265-4	161-2	302-3	175-2	157-4	100-2	178-3	103-2	135-4	690-3	154-3	898-3
0.100	209-2	598-4	335-2	611-3	375-2	223-4	926-3	228-3	140-2	189-4	831-3	195-3	118-2	162-4	646-3	166-3	102-2
0.110	935-3	454-4	223-2	383-3	259-2	337-4	158-2	286-3	192-2	276-4	121-2	236-3	157-2	222-4	910-3	192-3	126-2
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0.130	295-2	109-3	500-2	660-3	527-2	537-4	224-2	323-3	259-2	387-4	159-2	236-3	187-2	345-4	112-2	208-3	166-2
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0.150	838-3	172-3	699-2	784-3	723-2	780-4	314-2	355-3	326-2	619-4	199-2	282-3	259-2	526-4	151-2	244-3	220-2
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0.170	398-2	216-3	749-2	767-3	801-2	100-3	298-2	355-3	371-2	764-4	234-2	273-3	282-2	669-4	189-2	242-3	247-2
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0.200	210-1	687-3	206-1	175-2	216-1	175-3	530-2	447-3	552-2	119-3	327-2	299-3	373-2	972-4	263-2	250-3	305-2
0.220	194-1	709-3	200-1	149-2	202-1	270-3	740-2	570-3	772-2	161-3	433-2	343-3	461-2	124-3	315-2	264-3	354-2
0.240	112-1	458-3	114-1	813-3	119-1	326-3	809-2	580-3	854-2	204-3	506-2	369-3	534-2	149-3	343-2	263-3	390-2
0.260	272-1	114-2	273-1	173-2	276-1	419-3	945-2	633-3	101-1	250-3	535-2	381-3	605-2	172-3	354-2	261-3	416-2
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0.300	462-2	307-3	612-2	349-3	644-2	240-3	450-2	274-3	504-2	192-3	331-2	216-3	403-2	162-3	265-2	187-3	339-2
0.320	343-2	289-3	488-2	288-3	567-2	201-3	348-2	202-3	396-2	184-3	294-2	183-3	361-2	178-3	258-2	180-3	351-2
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0.420	307-2	127-2	183-1	737-3	190-1	680-3	931-2	394-3	101-1	484-3	654-2	280-3	725-2	367-3	503-2	217-3	549-2
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0.550	308-1	271-2	308-1	918-3	310-1	132-2	152-1	448-3	151-1	995-3	113-1	338-3	113-1	716-3	785-2	246-3	818-2
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0.700	230-1	272-2	231-1	568-3	244-1	137-2	119-1	288-3	123-1	103-2	974-2	217-3	930-2	800-3	751-2	169-3	718-2

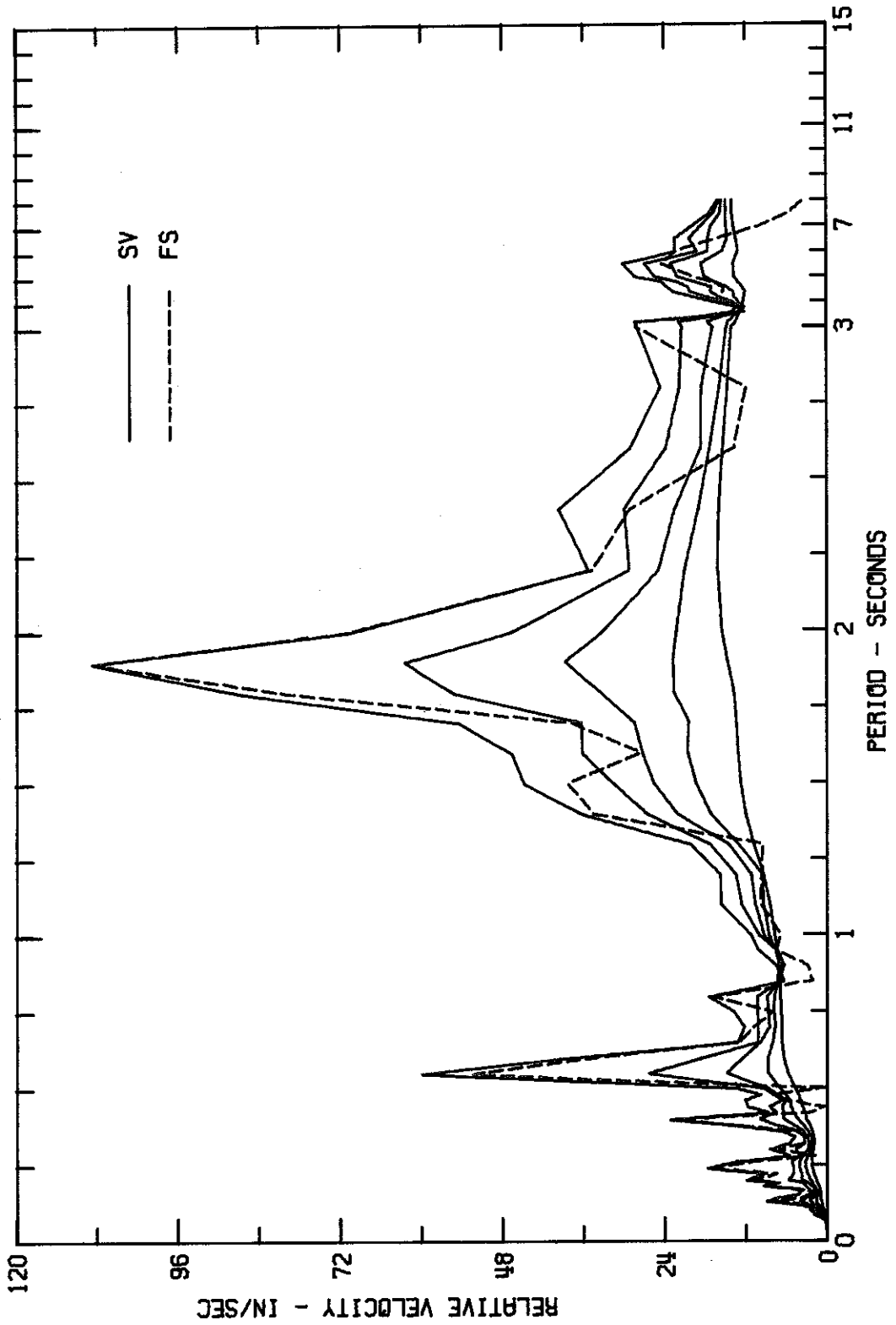
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IIIN193 71.130.0 2500 WILSHIRE BLVD., 8TH FLOOR, LOS ANGELES, CAL. COMP N29E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
DAMPING = 0 PER CENT																	
DAMPING = 2 PER CENT																	
DAMPING = 5 PER CENT																	
DAMPING = 10 PER CENT																	
DAMPING = 20 PER CENT																	
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0.80	135-1	208-2	148-1	333-3	163-1	127-2	110-1	203-3	100-1	929-3	828-2	149-3	729-2	901-3	624-2	146-3	708-2
0.85	137-1	226-1	147-1	321-3	167-1	133-2	779-2	189-3	985-2	107-2	602-2	152-3	792-2	955-3	507-2	134-3	691-2
0.90	310-2	105-2	728-2	133-3	736-2	974-3	706-2	123-3	680-2	100-2	646-2	126-3	699-2	953-3	532-2	122-3	666-2
0.95	291-2	125-2	782-2	142-3	829-2	111-2	727-2	126-3	736-2	104-2	663-2	118-3	689-2	985-3	577-2	113-3	651-2
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1.20	711-2	231-2	106-1	164-3	121-1	171-2	957-2	122-3	900-2	156-2	816-2	111-3	818-2	148-2	648-2	106-3	775-2
1.30	184-1	492-2	200-1	298-3	238-1	302-2	125-1	183-3	146-1	236-2	986-2	144-3	114-1	183-2	818-2	111-3	884-2
1.40	218-1	575-2	226-1	300-3	258-1	409-2	147-1	213-3	183-1	294-2	120-1	154-3	132-1	221-2	991-2	117-3	995-2
1.50	142-1	504-2	170-1	229-3	211-1	429-2	129-1	195-3	179-1	359-2	115-1	164-3	150-1	299-2	104-1	137-3	125-1
1.60	193-2	455-2	139-1	181-3	178-1	421-2	126-1	168-3	165-1	399-2	118-1	159-3	156-1	374-2	104-1	150-3	147-1
1.70	511-2	635-2	195-1	224-3	234-1	589-2	170-1	208-3	217-1	545-2	159-1	193-3	201-1	482-2	144-1	172-3	178-1
1.80	448-1	132-1	447-1	418-3	463-1	105-1	326-1	333-3	368-1	835-2	252-1	264-3	291-1	649-2	191-1	207-3	226-1
1.90	372-1	206-1	640-1	584-3	681-1	154-1	481-1	438-3	511-1	113-1	344-1	322-3	375-1	815-2	233-1	234-3	269-1
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2.20	104	0	365-1	104	0	771-3	104	0	276-1	890-1	590-3	869-1	192-1	152-1	342-1	269-3	357-1
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2.60	951-1	399-1	100	0	605-3	966-1	309-1	784-1	468-3	747-1	230-1	579-1	350-3	556-1	157-1	402-1	243-3
2.80	492-1	311-1	736-1	406-3	699-1	259-1	259-1	628-1	358-3	581-1	207-1	504-1	272-3	465-1	152-1	378-1	203-3
3.00	326-1	268-1	619-1	305-3	562-1	233-1	513-1	513-1	230-3	453-1	194-1	456-1	222-3	407-1	152-1	363-1	341-1
3.20	404-1	261-1	577-1	261-3	513-1	231-1	231-1	513-1	230-3	453-1	194-1	456-1	222-3	407-1	152-1	363-1	341-1
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3.60	333-1	247-1	507-1	194-3	431-1	222-1	457-1	175-3	387-1	193-1	397-1	153-3	336-1	157-1	326-1	127-3	275-1
3.80	233-1	241-1	440-1	171-3	399-1	219-1	401-1	155-3	362-1	191-1	356-1	136-3	316-1	156-1	304-1	113-3	258-1
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5.50	410-2	128-1	241-1	434-4	146-1	118-1	230-1	400-4	134-1	110-1	217-1	578-4	125-1	101-1	198-1	362-4	115-1
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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111N193 71.130.0 2500 WILSHIRE BLVD., 8TH FLOOR, LOS ANGELES, CAL. COMP N61W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

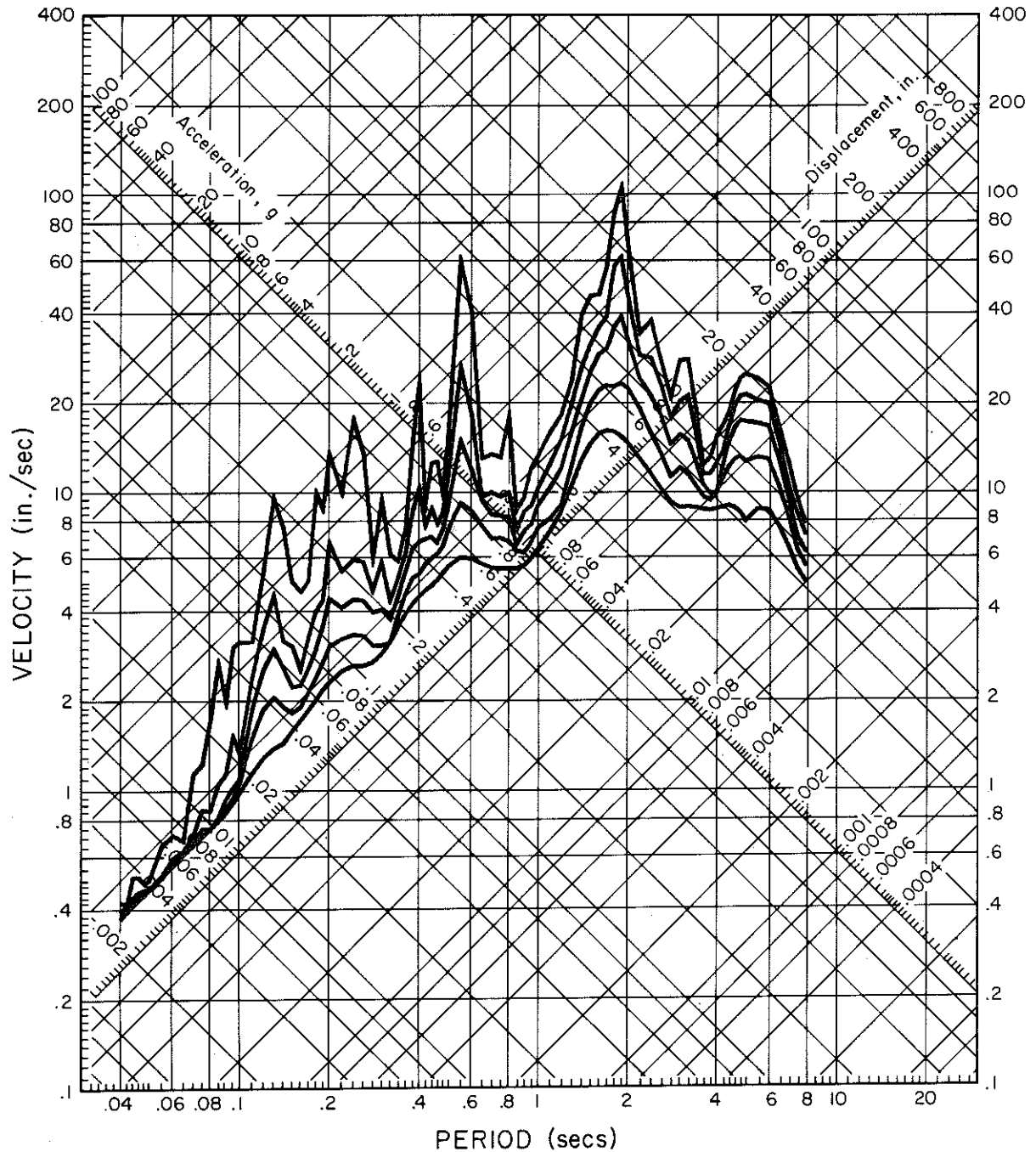


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

11IN193 71.130.0 2500 WILSHIRE BLVD., 8TH FLOOR, LOS ANGELES, CAL. COMP N61W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
 IIII193 71.130.0 2500 WILSHIRE BLVD., 8TH FLOOR, LOS ANGELES, CAL. COMP N61W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

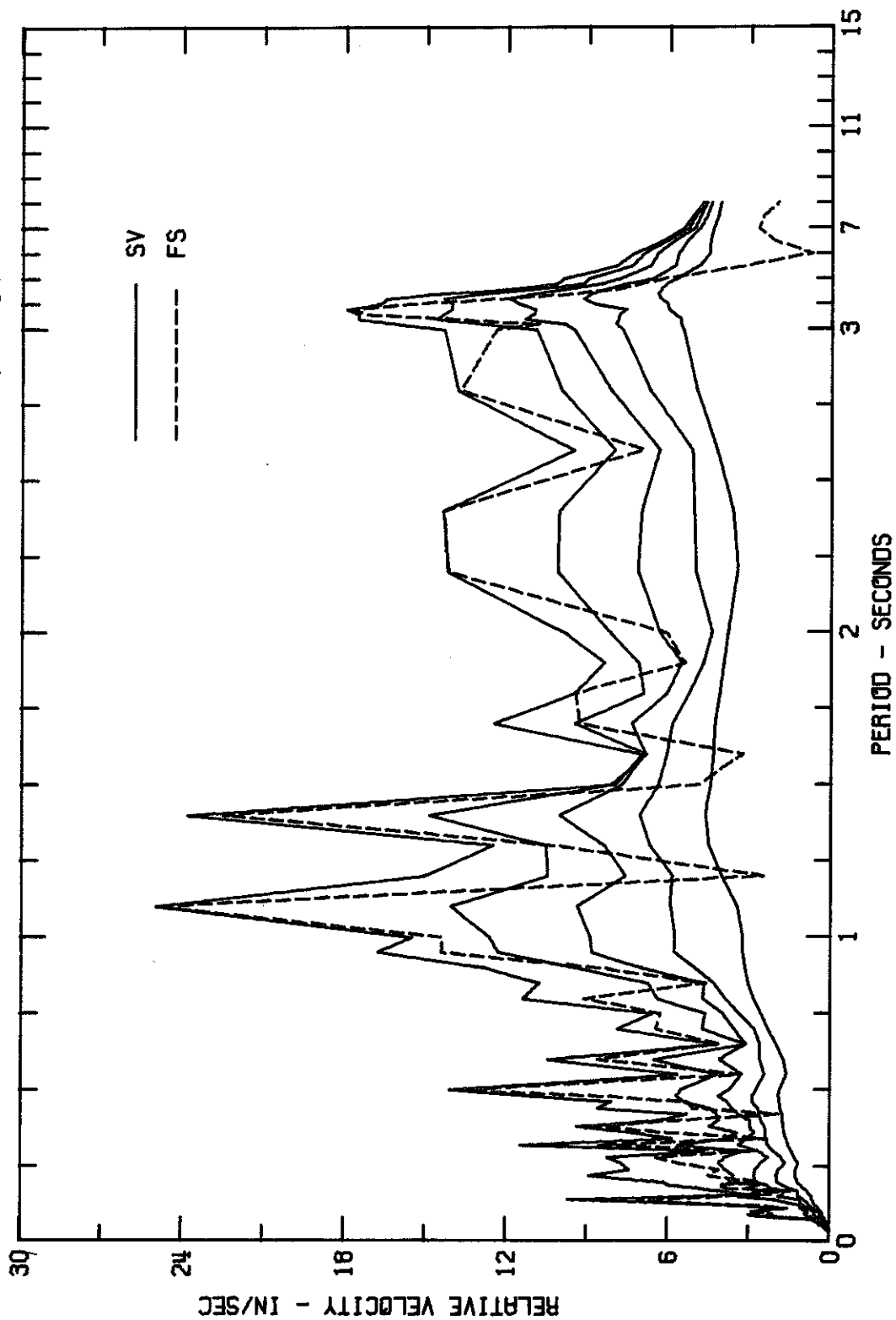
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0.040	926-4	268-5	134-3	171-3	422-3	250-5	668-4	160-3	393-3	238-5	606-4	152-3	374-3	236-5	574-4	151-3	372-3	237-5	553-4	152-3	373-3	237-5	553-4	152-3	373-3	237-5	553-4	152-3	373-3	237-5	553-4	152-3	373-3	237-5	553-4	152-3	373-3												
0.042	608-4	276-5	988-4	160-3	414-3	274-5	652-4	158-3	410-3	268-5	630-4	155-3	401-3	263-5	624-4	153-3	394-3	262-5	611-4	152-3	392-3	262-5	611-4	152-3	392-3	262-5	611-4	152-3	392-3	262-5	611-4	152-3	392-3	262-5	611-4	152-3	392-3												
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IIIN193 71.130.0 2500 WILSHIRE BLVD., 8TH FLOOR, LOS ANGELES, CAL. COMP N61W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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0.80	166-1	231-2	175-1	369-3	181-1	128-2	103-1	205-3	100-1	105-2	892-2	169-3	830-2	877-3	784-2	142-3	688-2
0.85	226-2	118-2	647-2	167-3	872-2	102-2	685-2	144-3	754-2	909-3	719-2	129-3	672-2	868-3	735-2	125-3	641-2
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0.95	760-2	185-2	103-1	209-3	122-1	138-2	762-2	156-3	913-2	119-2	746-2	135-3	789-2	104-2	773-2	119-3	688-2
1.00	690-2	211-2	113-1	216-3	133-1	165-2	101-1	169-3	104-1	145-2	944-2	148-3	911-2	122-2	868-2	103-2	783-2
1.10	987-2	280-2	157-1	237-3	160-1	220-2	127-1	186-3	125-1	183-2	107-1	155-3	104-1	145-2	951-2	125-3	828-2
1.20	971-2	353-2	158-1	250-3	184-1	290-2	136-1	206-3	152-1	232-2	113-1	166-3	121-1	175-2	962-2	127-3	920-2
1.30	957-2	499-2	203-1	302-3	241-1	417-2	174-1	252-3	201-1	334-2	146-1	203-3	161-1	257-2	132-1	157-3	124-1
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1.70	378-1	156-1	546-1	555-3	580-1	107-1	364-1	379-3	395-1	833-2	286-1	296-3	307-1	626-2	204-1	226-3	231-1
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3.40	193-1	104-1	193-1	922-3	192-1	865-2	170-1	765-4	159-1	685-2	154-1	610-4	126-1	572-2	138-1	523-4	105-1
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4.20	159-1	114-1	197-1	661-4	170-1	930-2	180-1	540-4	139-1	833-2	161-1	487-4	124-1	751-2	137-1	451-4	112-1
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4.60	154-1	162-1	236-1	787-4	222-1	144-1	205-1	698-4	197-1	122-1	170-1	595-4	166-1	959-2	149-1	481-4	131-1
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6.50	162-1	173-1	225-1	419-4	167-1	155-1	203-1	376-4	150-1	134-1	175-1	328-4	129-1	109-1	146-1	281-4	105-1
7.00	988-2	142-1	198-1	296-4	127-1	118-1	186-1	246-4	106-1	108-1	170-1	230-4	971-2	938-2	149-1	204-4	842-2
7.50	560-2	115-1	173-1	209-4	964-2	101-1	167-1	185-4	854-2	854-2	157-1	157-4	715-2	770-2	149-1	157-4	645-2
8.00	363-2	101-1	161-1	161-4	795-2	923-2	158-1	148-4	725-2	808-2	154-1	131-4	634-2	727-2	149-1	133-4	571-2

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111N193 71.130.0 2500 WILSHIRE BLVD.. 8TH FLOOR, LOS ANGELES, CAL. COMP DOWN
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

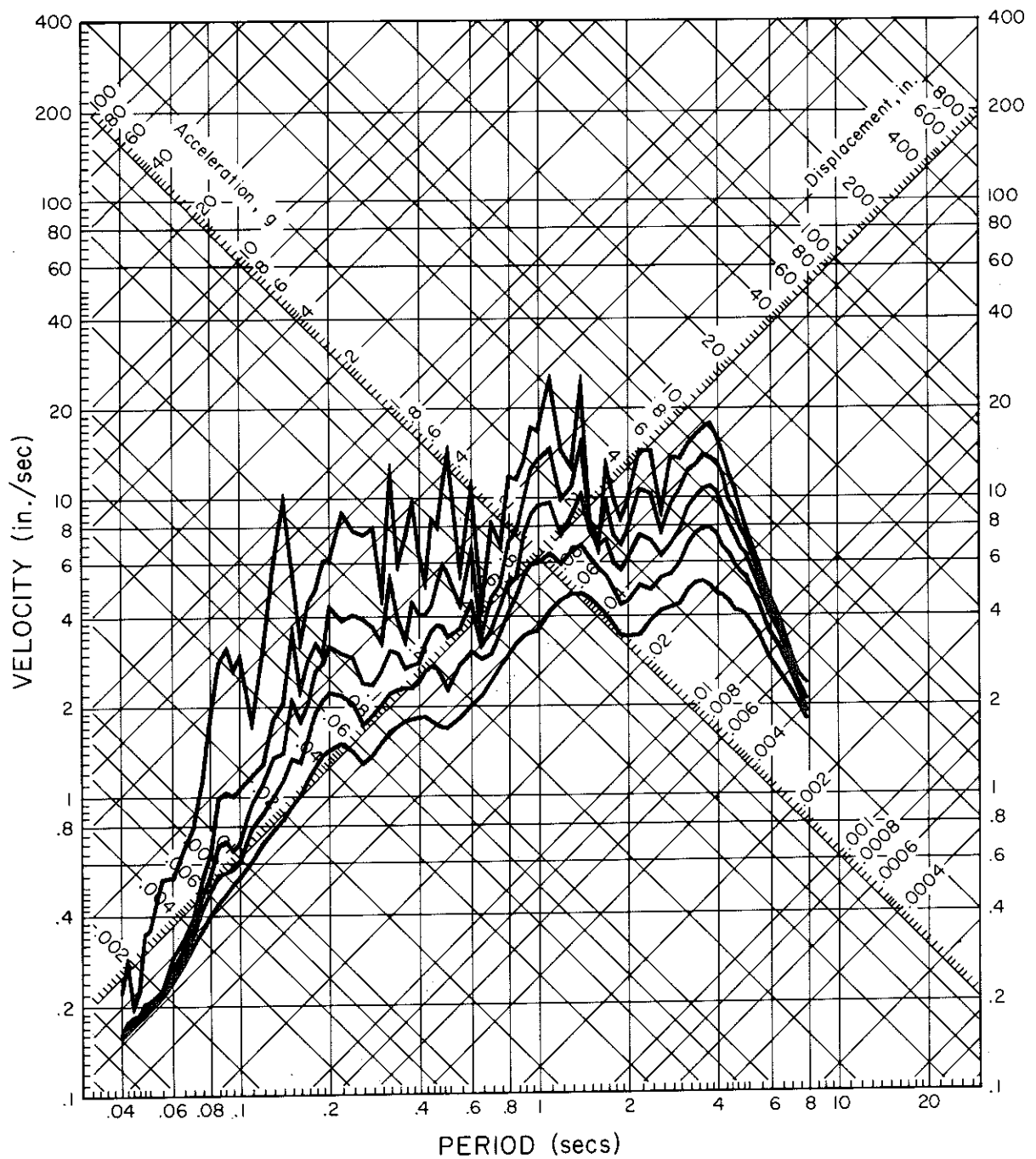


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

11IN193 71.130.0 2500 WILSHIRE BLVD., 8TH FLOOR, LOS ANGELES, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN193	71.130.0	2500 WILSHIRE BLVD., 8TH FLOOR, LOS ANGELES, CAL.	COMP DOWN
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FUR SD AND G FOR SA

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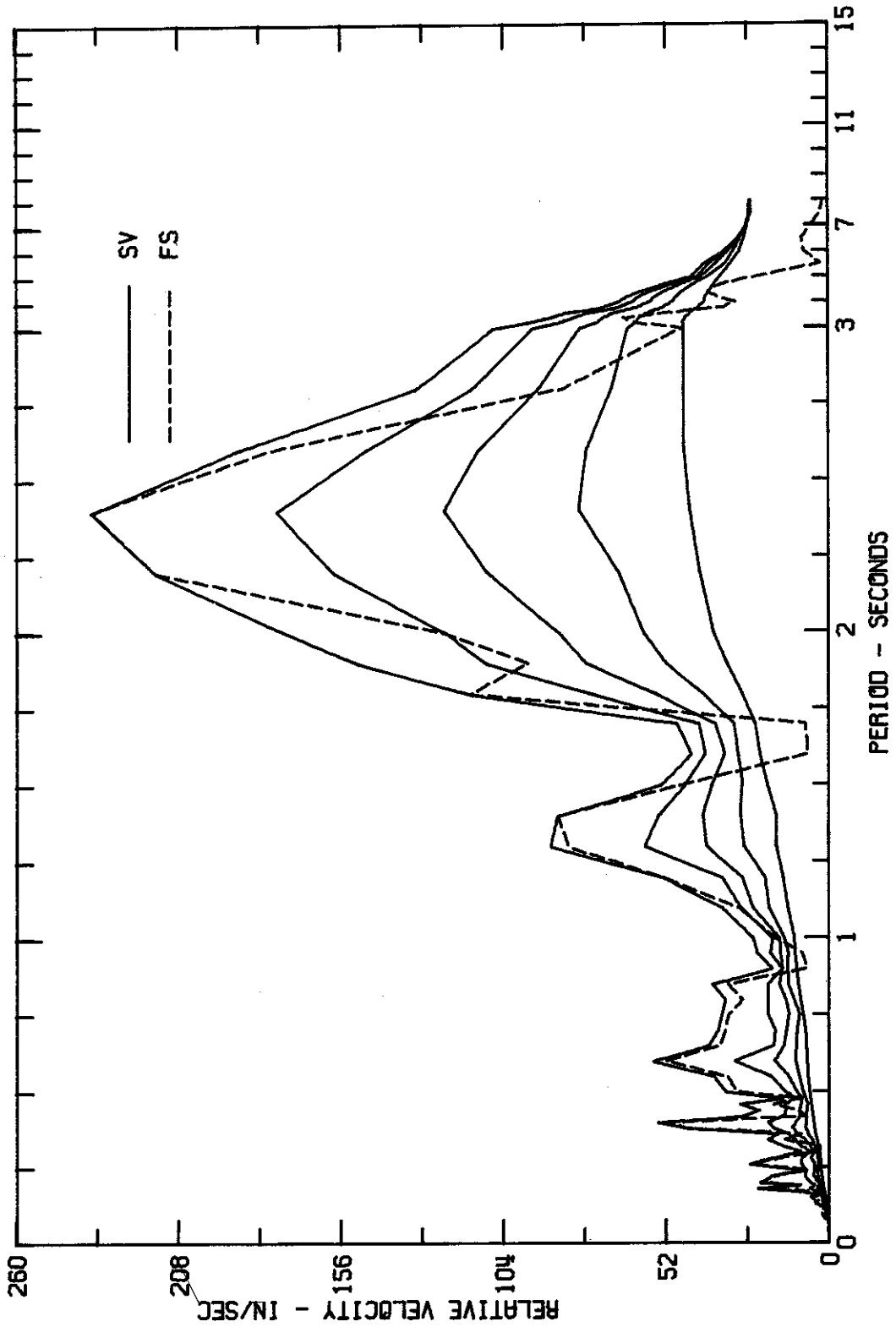
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0.042	114-3	186-5	162-3	108-3	279-3	118-5	474-4	688-4	177-3	114-5	432-4	664-4	171-3	112-5	418-4	652-4	167-3
0.044	373-4	139-5	719-4	736-4	199-3	128-5	574-4	680-4	184-3	125-5	518-4	663-4	179-3	123-5	484-4	651-4	176-3
0.046	655-4	166-5	106-3	805-4	227-3	136-5	622-4	661-4	186-3	136-5	553-4	662-4	187-3	134-5	539-4	650-4	183-3
0.048	929-4	266-5	205-3	118-3	348-3	156-5	732-4	693-4	204-3	147-5	573-4	658-4	193-3	145-5	597-4	647-4	190-3
0.050	110-3	285-5	236-3	117-3	359-3	165-5	811-4	675-4	207-3	160-5	722-4	657-4	201-3	157-5	681-4	644-4	197-3
0.055	179-3	465-5	419-3	157-3	531-3	197-5	115-3	669-4	225-3	192-5	108-3	652-4	220-3	191-5	974-4	647-4	218-3
0.060	265-3	513-5	373-3	145-3	537-3	282-5	175-3	804-4	295-3	258-5	151-3	731-4	270-3	242-5	130-3	697-4	253-3
0.065	419-3	695-5	538-3	168-3	672-3	346-5	189-3	839-4	334-3	323-5	151-3	780-4	313-3	311-5	152-3	754-4	300-3
0.070	396-3	886-5	611-3	185-3	796-3	439-5	274-3	917-4	394-3	406-5	220-3	846-4	364-3	387-5	192-3	826-4	347-3
0.075	771-3	135-4	986-3	246-3	113-2	635-5	342-3	115-3	532-3	559-5	289-3	102-3	468-3	505-5	245-3	912-4	423-3
0.080	158-2	244-4	175-2	390-3	191-2	825-5	511-3	132-3	648-3	700-5	360-3	111-3	549-3	621-5	291-3	101-3	488-3
0.085	246-2	383-4	270-2	542-3	283-2	133-4	843-3	190-3	989-3	928-5	521-3	130-3	686-3	744-5	350-3	104-3	550-3
0.090	211-2	452-4	305-2	571-3	316-2	148-4	859-3	185-3	103-2	101-4	595-3	127-3	711-3	800-5	389-3	103-3	559-3
0.095	224-2	402-4	252-2	456-3	266-2	151-4	859-3	171-3	100-2	100-4	583-3	115-3	661-3	867-5	416-3	990-4	573-3
0.100	292-2	472-4	289-2	482-3	296-2	169-4	850-3	173-3	106-2	111-4	522-3	114-3	698-3	963-5	445-3	101-3	605-3
0.110	156-2	308-4	166-2	260-3	175-2	205-4	108-2	173-3	117-2	166-4	834-3	140-3	951-3	137-4	641-3	116-3	784-3
0.120	258-2	609-4	311-2	432-3	318-2	244-4	985-3	174-3	128-2	212-4	962-3	149-3	111-2	167-4	778-3	121-3	878-3
0.130	570-2	127-3	607-2	773-3	617-2	376-4	160-2	228-3	182-2	279-4	108-2	168-3	135-2	207-4	854-3	127-3	100-2
0.140	715-2	221-3	972-2	115-2	994-2	458-4	204-2	238-3	205-2	311-4	113-2	162-3	139-2	252-4	970-3	133-3	113-2
0.150	397-2	136-3	535-2	619-3	570-2	850-4	340-2	386-3	356-2	500-4	192-2	228-3	209-2	318-4	117-2	147-3	133-2
0.160	302-2	843-4	314-2	336-3	331-2	578-4	215-2	230-3	227-2	452-4	175-2	179-3	177-2	330-4	119-2	135-3	129-2
0.170	145-2	122-3	413-2	432-3	451-2	782-4	245-2	276-3	289-2	559-4	166-2	199-3	208-2	425-4	122-2	152-3	157-2
0.180	406-2	142-3	497-2	450-3	498-2	940-4	307-2	296-3	328-2	758-4	222-2	239-3	264-2	547-4	156-2	175-3	191-2
0.190	398-2	187-3	603-2	531-3	620-2	900-4	258-2	256-3	297-2	847-4	238-2	241-3	280-2	639-4	180-2	184-3	211-2
0.200	263-2	199-3	617-2	509-3	625-2	137-3	376-2	352-3	432-2	101-3	281-2	262-3	319-2	715-4	197-2	186-3	223-2
0.210	412-2	298-3	743-2	529-3	780-2	155-3	385-2	288-3	389-2	106-3	279-2	228-3	303-2	765-4	200-2	167-3	218-2
0.220	558-2	312-3	775-2	472-3	754-2	162-3	412-2	247-3	393-2	995-4	255-2	152-3	240-2	715-4	167-2	111-3	172-2
0.230	646-2	357-3	823-2	465-3	801-2	164-3	392-2	214-3	370-2	125-3	229-2	138-3	237-2	834-4	182-2	108-3	187-2
0.240	280-2	226-3	463-2	257-3	474-2	174-3	319-2	176-3	326-2	126-3	267-2	147-3	265-2	969-4	212-2	111-3	202-2
0.250	861-2	613-3	114-1	612-3	120-1	276-3	565-2	273-3	338-2	157-3	339-2	157-3	309-2	112-3	232-2	113-3	221-2
0.260	232-2	324-3	582-2	287-3	599-2	213-3	387-2	188-3	393-2	163-3	306-2	143-3	302-2	123-3	228-2	924-4	163-2
0.270	606-2	432-3	721-2	341-3	755-2	189-3	344-2	150-3	331-2	154-3	281-2	121-3	269-2	132-3	241-2	104-3	231-2
0.280	866-2	588-3	939-2	416-3	972-2	270-3	447-2	191-3	447-2	167-3	298-2	119-3	277-2	140-3	244-2	101-3	231-2
0.290	560-2	417-3	637-2	266-3	655-2	259-3	412-2	166-3	407-2	178-3	298-2	116-3	277-2	155-3	255-2	102-3	243-2
0.300	186-2	348-3	528-2	202-3	521-2	273-3	422-2	158-3	408-2	218-3	343-2	125-3	326-2	175-3	264-2	103-3	263-2
0.310	509-2	600-3	862-2	317-3	857-2	306-3	444-2	162-3	437-2	251-3	363-2	134-3	359-2	191-3	267-2	104-3	273-2
0.320	530-2	585-3	812-2	282-3	799-2	382-3	540-2	185-3	523-2	276-3	383-2	135-3	377-2	197-3	288-2	980-4	269-2
0.330	858-2	852-3	109-1	378-3	111-1	460-3	570-2	204-3	602-2	282-3	314-2	125-3	369-2	190-3	290-2	861-4	249-2
0.340	137-1	113-2	141-1	465-3	143-1	443-3	554-2	180-3	556-2	272-3	372-2	112-3	342-2	181-3	274-2	753-4	228-2
0.350	329-2	493-3	561-2	167-3	565-2	381-3	417-2	128-3	435-2	322-3	329-2	109-3	367-2	242-3	244-2	831-4	277-2
0.360	863-2	104-2	104-1	295-3	109-1	643-3	656-2	182-3	673-2	428-3	412-2	122-3	448-2	294-3	261-2	847-4	308-2
0.370	408-2	451-3	417-2	109-3	436-2	354-3	313-2	859-4	342-2	330-3	314-2	804-4	319-2	298-3	263-2	734-4	288-2
0.380	646-2	920-3	791-2	192-3	826-2	519-3	475-2	108-3	466-2	404-3	359-2	845-4	363-2	335-3	284-2	709-4	301-2
0.390																	
0.400																	
0.410																	
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IIIN193 71.130.0 2500 WILSHIRE BLVD., 8TH FLOOR, LOS ANGELES, CAL. COMP DOWN

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT										DAMPING = 2 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PER CENT										DAMPING = 20 PER CENT									
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV												
0.75	629-2	829-3	659-2	150-3	694-2	617-3	462-2	112-3	517-2	519-3	399-2	946-4	434-2	425-3	340-2	780-4	356-2	325-3	260-2	624-4	272-2																												
0.80	912-2	150-2	114-1	241-3	118-1	917-3	644-2	146-3	720-2	669-3	476-2	107-3	525-2	530-3	390-2	858-4	416-2	380-3	287-2	647-4	299-2																												
0.85	461-2	156-2	107-1	222-3	115-1	105-2	675-2	149-3	781-2	728-3	467-2	103-3	538-2	639-3	434-2	918-4	472-2	440-3	308-2	663-4	325-2																												
0.90	861-2	192-2	128-1	243-3	134-1	143-2	947-2	180-3	998-2	108-2	703-2	138-3	759-2	790-3	506-2	101-3	552-2	496-3	320-2	673-4	346-2																												
0.95	144-1	262-2	167-1	297-3	173-1	190-2	123-1	215-3	125-1	134-2	885-2	152-3	888-2	909-3	581-2	105-3	601-2	537-3	328-2	654-4	355-2																												
1.00	143-1	267-2	154-1	273-3	168-1	214-2	126-1	219-3	134-1	150-2	893-2	154-3	945-2	963-3	577-2	100-3	605-2	570-3	328-2	631-4	358-2																												
1.10	249-1	440-2	250-1	371-3	251-1	256-2	140-1	217-3	146-1	170-2	940-2	144-3	971-2	114-2	596-2	982-4	654-2	733-3	350-2	649-4	418-2																												
1.20	248-2	275-2	150-1	195-3	144-1	188-2	104-1	134-3	988-2	143-2	760-2	102-3	752-2	114-2	586-2	829-4	601-2	870-3	405-2	655-4	455-2																												
1.30	102-1	262-2	124-1	158-3	126-1	227-2	105-1	137-3	109-1	182-2	842-2	110-3	880-2	138-2	673-2	851-4	667-2	985-3	453-2	639-4	476-2																												
1.40	225-1	536-2	238-1	280-3	240-1	338-2	148-1	176-3	151-1	230-2	100-1	120-3	103-1	155-2	709-2	827-4	696-2	106-2	467-2	600-4	479-2																												
1.50	488-2	196-2	796-2	893-4	823-2	199-2	812-2	905-4	834-2	184-2	771-2	843-4	773-2	149-2	637-2	694-4	628-2	110-2	445-2	546-4	461-2																												
1.60	326-2	170-2	696-2	682-4	670-2	184-2	682-2	736-4	723-2	176-2	688-2	709-4	693-2	147-2	607-2	601-4	579-2	110-2	435-2	487-4	434-2																												
1.70	934-2	350-2	124-1	124-3	129-1	261-2	948-2	927-4	967-2	197-2	740-2	703-4	731-2	148-2	587-2	535-4	548-2	109-2	430-2	431-4	405-2																												
1.80	949-2	283-2	949-2	895-4	990-2	214-2	695-2	676-4	747-2	173-2	608-2	552-4	572-2	141-2	525-2	454-4	492-2	107-2	412-2	379-4	376-2																												
1.90	542-2	256-2	837-2	726-4	847-2	211-2	714-2	599-4	699-2	173-2	552-2	493-4	572-2	132-2	472-2	383-4	437-2	104-2	396-2	332-4	344-2																												
2.00	611-2	310-2	987-2	793-4	975-2	249-2	821-2	637-4	782-2	198-2	637-2	510-4	624-2	142-2	443-2	372-4	448-2	109-2	382-2	298-4	344-2																												
2.20	142-1	507-2	142-1	107-3	144-1	375-2	101-1	794-4	107-1	263-2	717-2	559-4	752-2	178-2	504-2	386-4	510-2	121-2	350-2	285-4	346-2																												
2.40	143-1	550-2	144-1	977-4	144-1	395-2	101-1	702-4	103-1	275-2	704-2	492-4	721-2	188-2	512-2	338-4	492-2	148-2	366-2	290-4	390-2																												
2.60	694-2	373-2	951-2	564-4	902-2	319-2	801-2	483-4	772-2	265-2	637-2	405-4	642-2	224-2	517-2	348-4	541-2	173-2	426-2	284-4	418-2																												
2.80	137-1	613-2	138-1	799-4	137-1	426-2	100-1	556-4	957-2	314-2	821-2	412-4	705-2	247-2	676-2	334-4	556-2	191-2	503-2	279-4	430-2																												
3.00	124-1	649-2	143-1	738-4	136-1	514-2	109-1	585-4	107-1	375-2	958-2	429-4	786-2	290-2	777-2	334-4	607-2	210-2	552-2	267-4	441-2																												
3.20	107-1	775-2	161-1	775-4	152-1	634-2	129-1	633-4	124-1	477-2	995-2	479-4	937-2	358-2	802-2	367-4	703-2	251-2	585-2	272-4	493-2																												
3.40	139-1	883-2	175-1	781-4	163-1	702-2	146-1	621-4	129-1	547-2	113-1	486-4	101-1	413-2	792-2	377-4	764-2	281-2	561-2	282-4	521-2																												
3.60	172-1	989-2	175-1	780-4	172-1	802-2	143-1	634-4	140-1	615-2	110-1	489-4	107-1	452-2	788-2	367-4	790-2	301-2	585-2	272-4	525-2																												
3.80	177-1	107-1	179-1	763-4	178-1	826-2	140-1	585-4	136-1	664-2	109-1	473-4	109-1	481-2	764-2	352-4	796-2	307-2	606-2	250-4	508-2																												
4.00	156-1	101-1	167-1	648-4	159-1	839-2	140-1	537-4	131-1	668-2	116-1	430-4	105-1	481-2	884-2	317-4	756-2	305-2	614-2	221-4	479-2																												
4.20	124-1	939-2	164-1	544-4	140-1	786-2	143-1	456-4	117-1	619-2	119-1	361-4	926-2	456-2	921-2	273-4	682-2	313-2	636-2	207-4	469-2																												
4.40	959-2	831-2	147-1	439-4	118-1	685-2	130-1	362-4	978-2	571-2	111-1	304-4	816-2	453-2	892-2	248-4	650-2	314-2	646-2	193-4	448-2																												
4.60	792-2	775-2	120-1	375-4	105-1	659-2	110-1	319-4	901-2	546-2	989-2	266-4	746-2	437-2	837-2	220-4	596-2	306-2	634-2	175-4	418-2																												
4.80	704-2	693-2	101-1	307-4	908-2	595-2	917-2	264-4	779-2	518-2	847-2	232-4	678-2	431-2	754-2	198-4	564-2	317-2	609-2	159-4	415-2																												
5.00	623-2	632-2	993-2	258-4	794-2	581-2	902-2	238-4	730-2	516-2	784-2	214-4	648-2	432-2	659-2	185-4	543-2	321-2	575-2	151-4	404-2																												
5.50	316-2	532-2	796-2	179-4	608-2	495-2	739-2	167-4	565-2	450-2	669-2	155-4	514-2	392-2	581-2	143-4	448-2	309-2	489-2	126-4	353-2																												
6.00	732-3	450-2	733-2	127-4	471-2	423-2	696-2	120-4	443-2	387-2	645-2	111-4	405-2	338-2	569-2	102-4	354-2	277-2	453-2	102-4	290-2																												
6.50	217-2	406-2	623-2	984-5	393-2	387-2	606-2	941-5	374-2	361-2	579-2	892-5	349-2	324-2	535-2	847-5	313-2	266-2	452-2	811-5	257-2																												
7.00	275-2	347-2	549-2	725-5	312-2	337-2	533-2	707-5	302-2	322-2	509-2	690-5	289-2	298-2	489-2	681-5	267-2	256-2	438-2	701-5	230-2																												
7.50	254-2	306-2	514-2	558-5	357-2	286-2	504-2	523-5	239-2	280-2	488-2	526-5	234-2	268-2	462-2	544-5	225-2	242-2	420-2	606-5	20																												

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111N194 71.131.0 2500 WILSHIRE BLVD., ROOF, LOS ANGELES, CAL. COMP N29E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

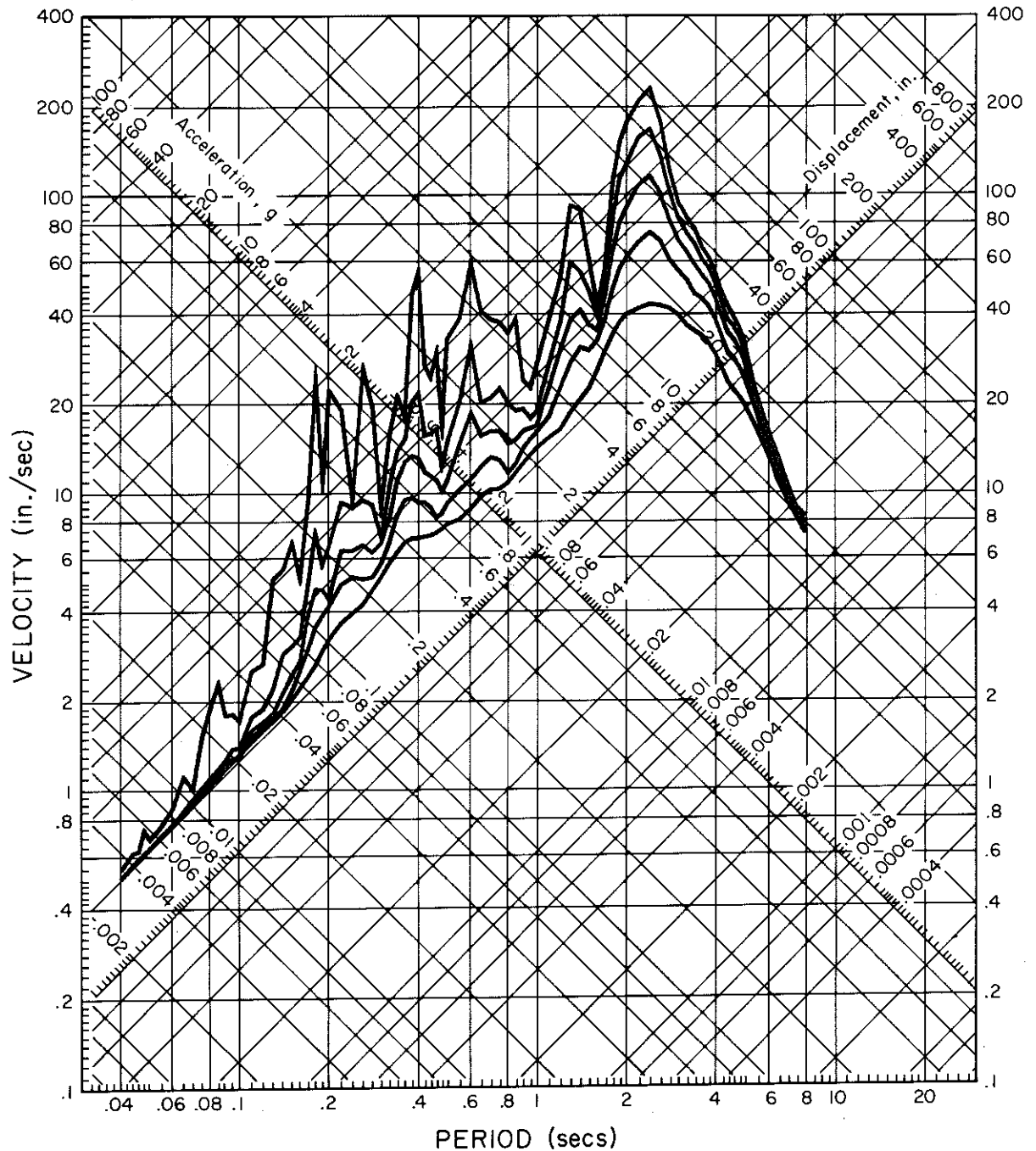


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN194 71.131.0 2500 WILSHIRE BLVD., ROOF, LOS ANGELES, CAL. COMP N29E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
 IIIN194 71.131.0 2500 WILSHIRE BLVD., ROOF, LOS ANGELES, CAL. COMP N29E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FUR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	190-3	347-5	843-4	222-3	546-3	325-5	942-4	208-3	511-3	325-5	917-4	207-3	510-3	325-5	860-4	207-3	510-3
0.042	176-3	389-5	167-3	226-3	583-3	357-5	105-3	207-3	534-3	358-5	101-3	207-3	536-3	359-5	944-4	208-3	537-3
0.044	165-3	436-5	119-3	230-3	623-3	396-5	115-3	209-3	566-3	395-5	109-3	208-3	564-3	394-5	102-3	208-3	563-3
0.046	236-3	460-5	116-3	222-3	628-3	434-5	121-3	210-3	594-3	433-5	117-3	209-3	591-3	432-5	110-3	208-3	590-3
0.048	324-3	568-5	226-3	252-3	743-3	473-5	131-3	210-3	619-3	471-5	126-3	209-3	617-3	471-5	117-3	209-3	617-3
0.050	283-3	547-5	193-3	224-3	688-3	511-5	139-3	209-3	643-3	511-5	133-3	209-3	643-3	512-5	124-3	209-3	643-3
0.055	253-3	677-5	182-3	229-3	774-3	617-5	167-3	208-3	705-3	622-5	159-3	210-3	711-3	622-5	167-3	210-3	711-3
0.060	225-3	845-5	256-3	240-3	885-3	738-5	191-3	209-3	772-3	740-5	180-3	210-3	775-3	742-5	163-3	210-3	775-3
0.065	449-3	115-4	409-3	280-3	112-2	886-5	209-3	214-3	856-3	881-5	198-3	213-3	852-3	876-5	184-3	212-3	847-3
0.070	294-3	112-4	325-3	233-3	100-2	104-4	222-3	218-3	939-3	103-4	211-3	215-3	926-3	102-4	199-3	213-3	916-3
0.075	626-3	183-4	723-3	334-3	153-2	122-4	270-3	221-3	102-2	117-4	224-3	212-3	980-3	116-4	215-3	211-3	974-3
0.080	122-2	247-4	109-2	395-3	194-2	141-4	411-3	225-3	111-2	133-4	316-3	212-3	104-2	132-4	265-3	212-3	104-2
0.085	149-2	314-4	169-2	445-3	232-2	160-4	565-3	227-3	118-2	157-4	372-3	222-3	116-2	153-4	316-3	216-3	113-2
0.090	422-3	258-4	954-3	326-3	180-2	182-4	706-3	230-3	127-2	177-4	429-3	225-3	124-2	172-4	372-3	218-3	120-2
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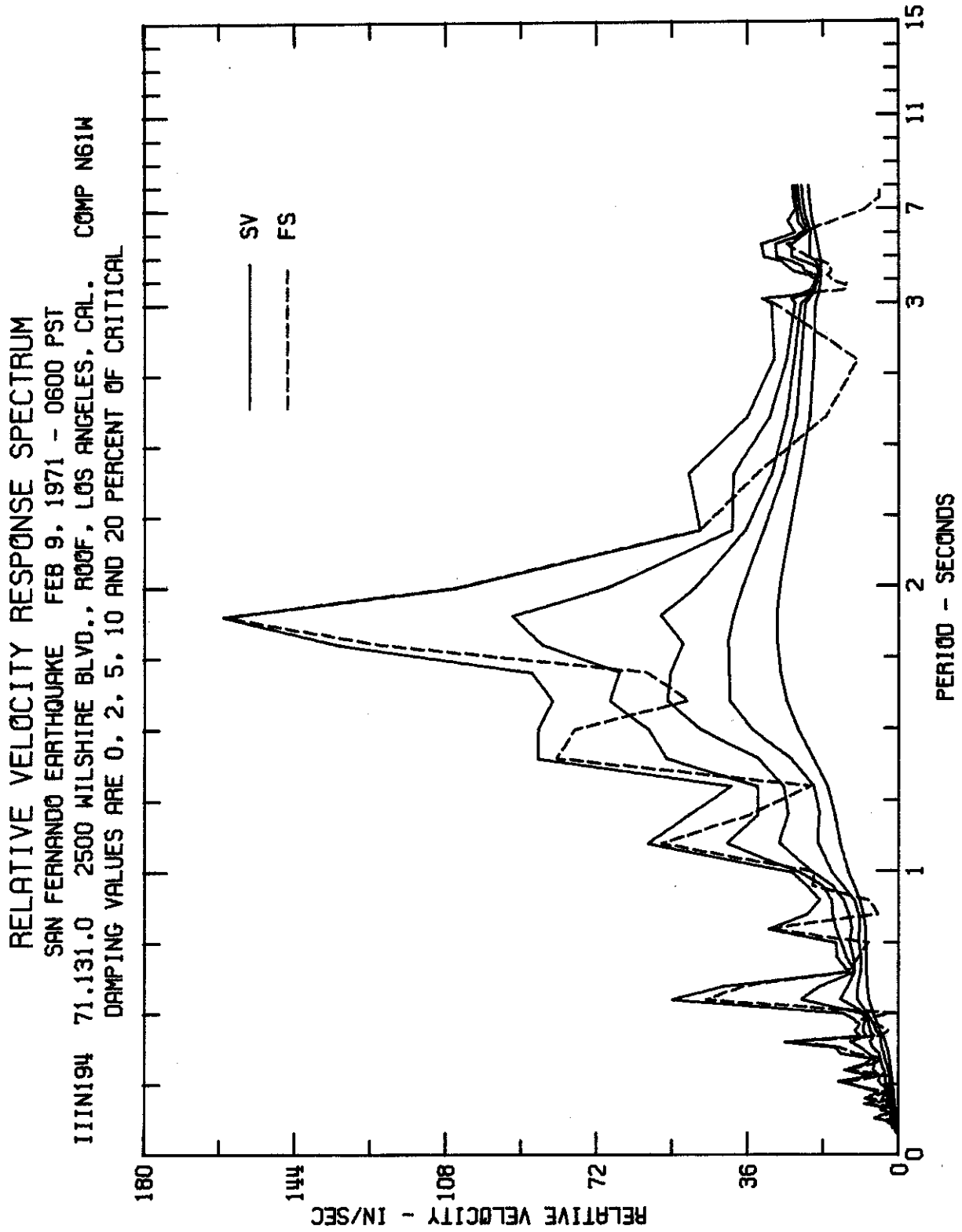
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IIIN194 71.131.0 2500 WILSHIRE BLVD., ROOF, LOS ANGELES, CAL. COMP N29E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FUR SD AND G FOR SA

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0.80	277-1	447-2	330-1	715-3	351-1	259-2	195-1	414-3	204-1	190-2	140-1	305-3	149-1	152-2	113-1	246-3	119-1	141-2	925-2	231-3	110-1		
0.85	323-1	534-2	372-1	756-3	395-1	260-2	197-1	369-3	192-1	208-2	161-1	296-3	154-1	173-2	130-1	246-3	127-1	161-2	100-1	235-3	119-1		
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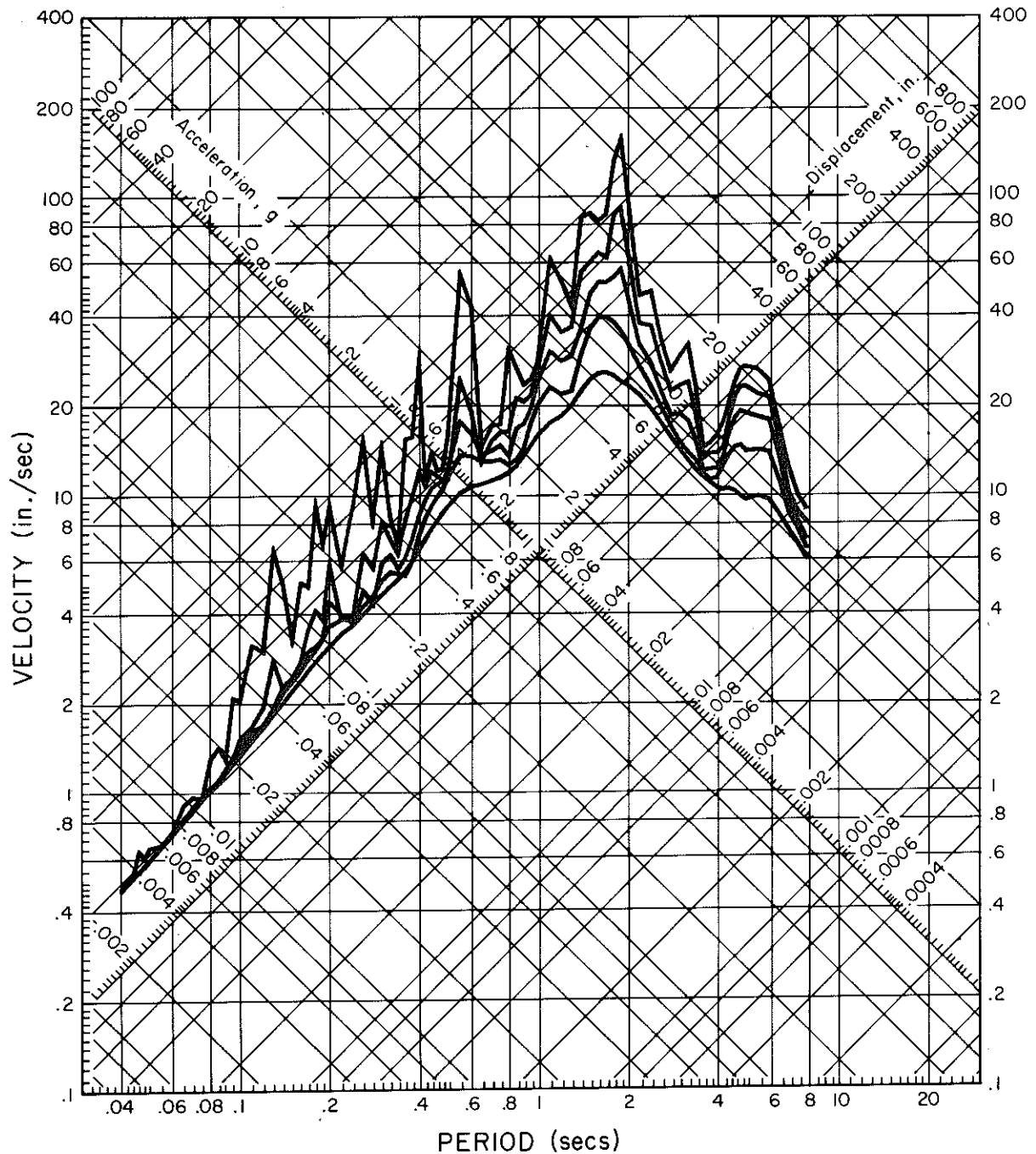


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN194 71.131.0 2500 WILSHIRE BLVD., ROOF, LOS ANGELES, CAL. COMP N61W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
 111N194 71.131.0 2500 WILSHIRE BLVD., ROOF, LOS ANGELES, CAL. CUMP N61W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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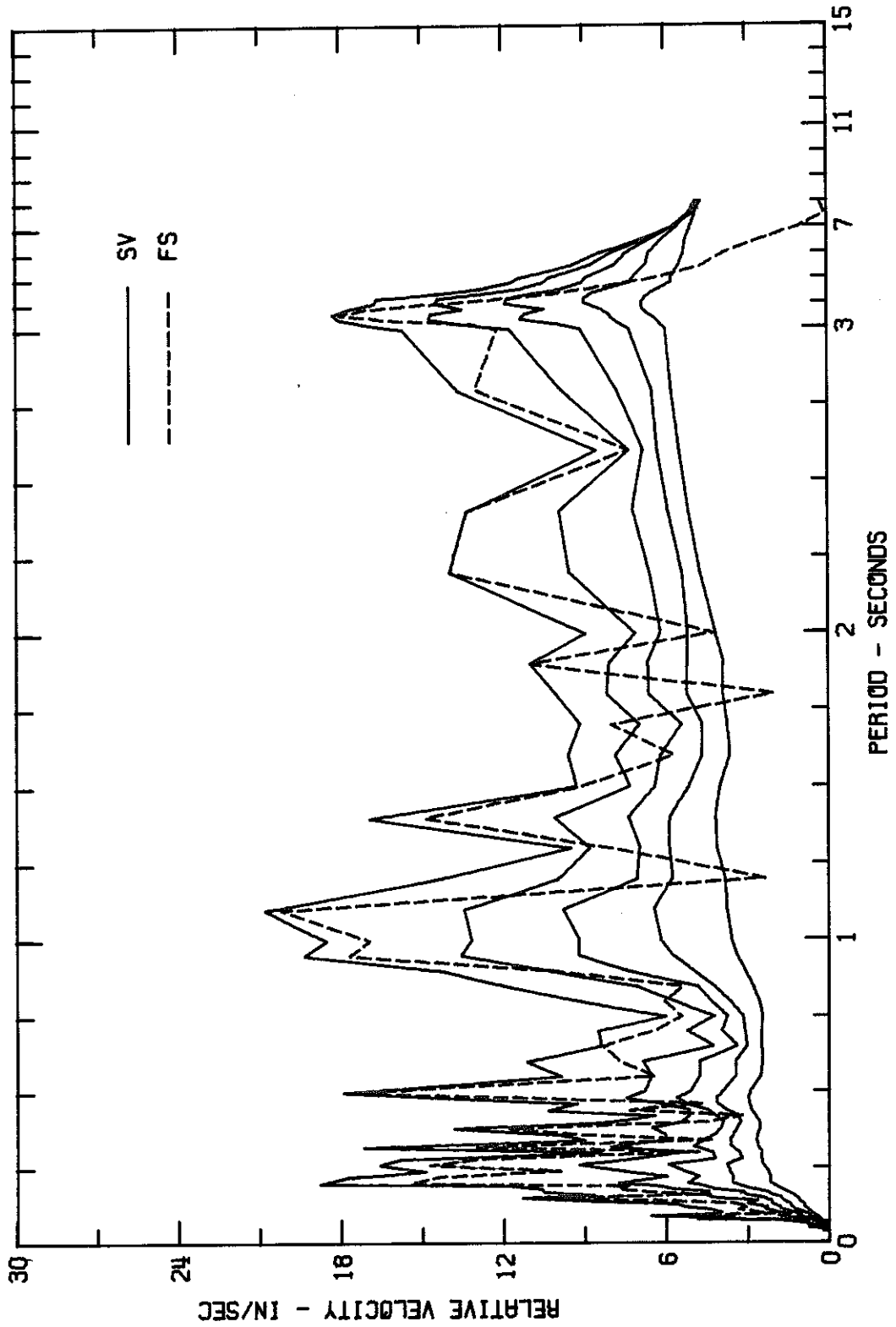
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RELATIVE VELOCITY RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

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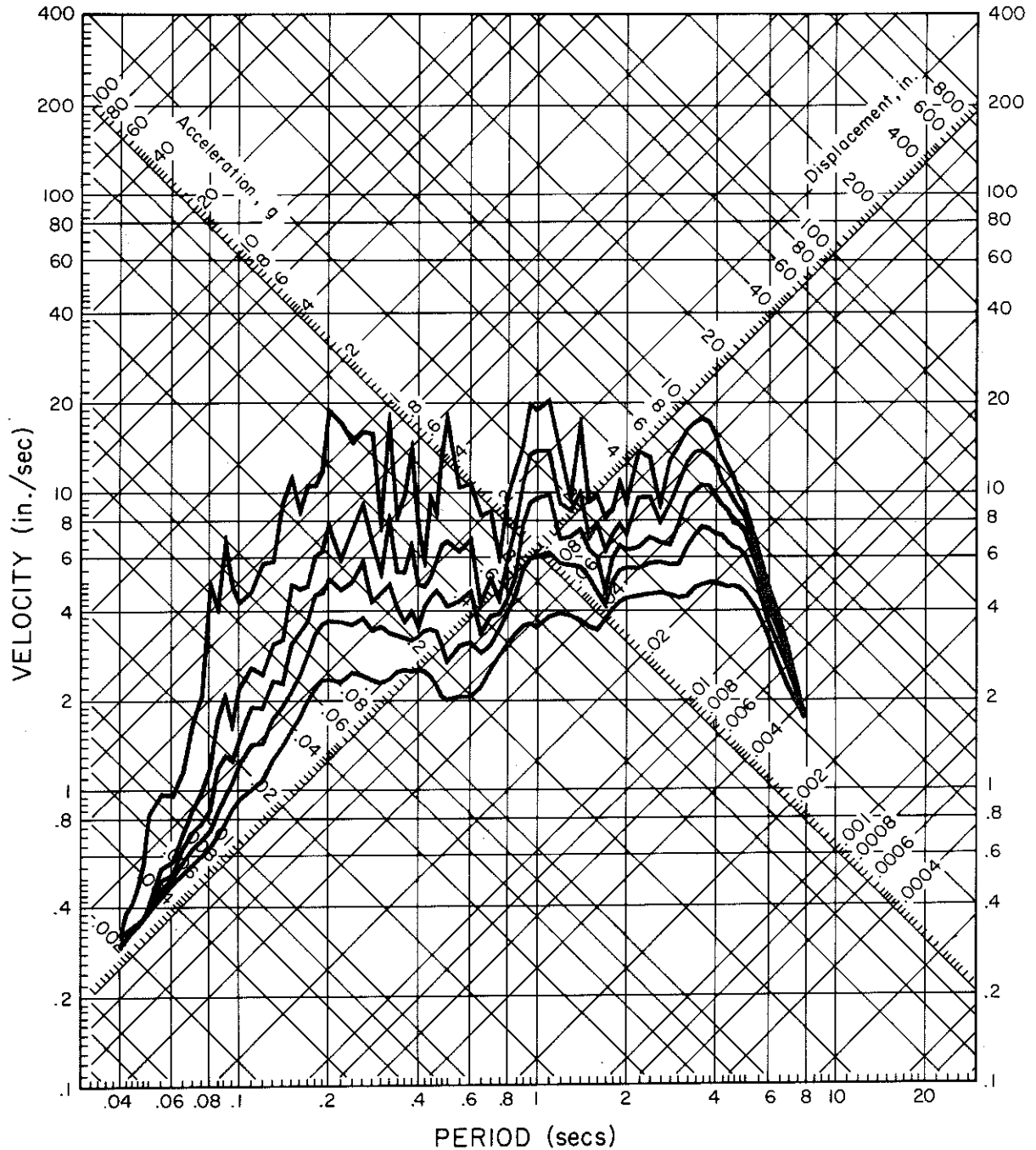


RESPONSE SPECTRUM

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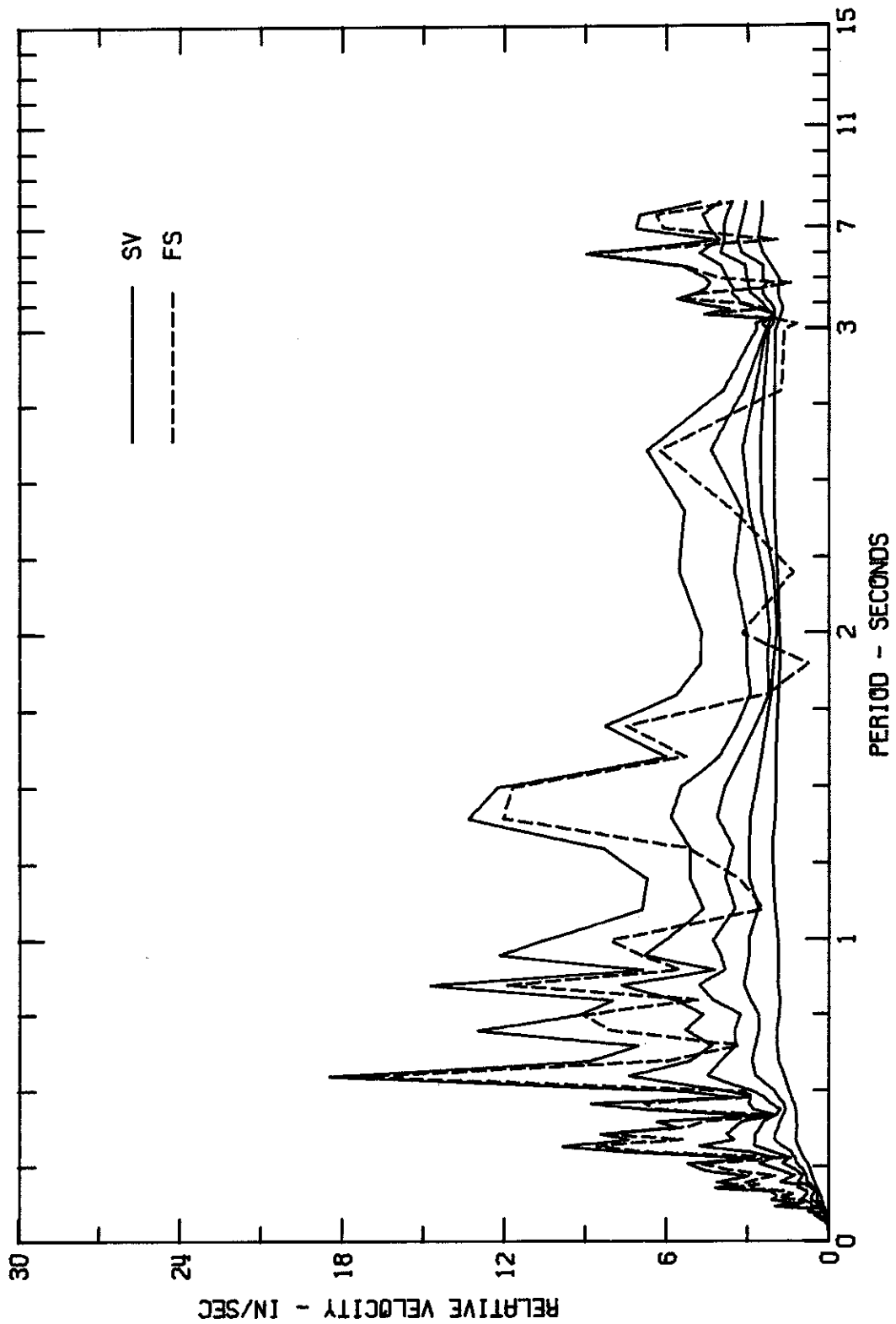


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111N194 71.131.0 2500 WILSHIRE BLVD., ROOF, LOS ANGELES, CAL. COMP DOWN

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
111N195 71.140.0 SAN JUAN CAPISTRANO, CAL. COMP N33E
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

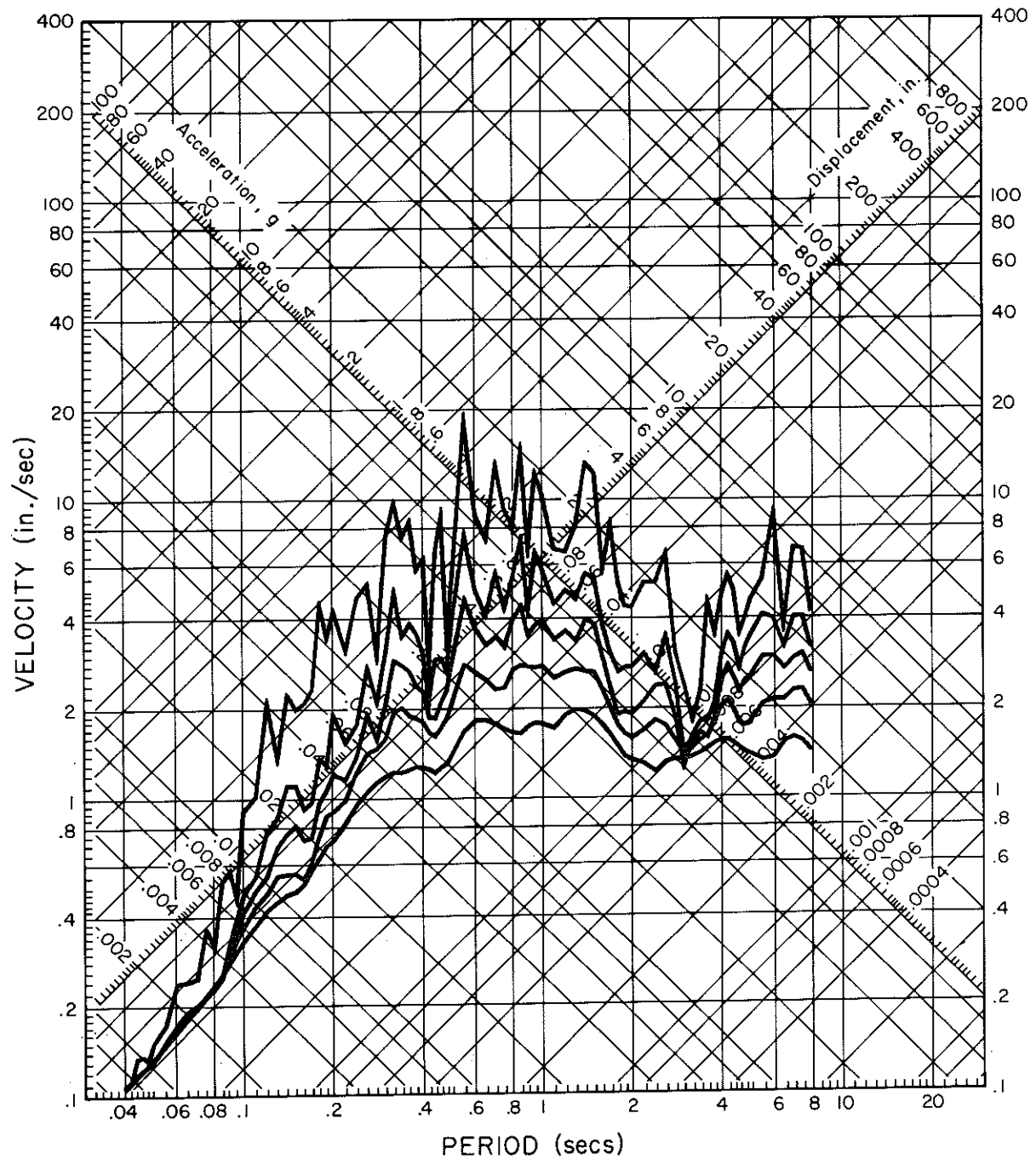


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

11IN195 71.140.0 SAN JUAN CAPISTRANO, CAL. COMP N33E

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN195 71.140.0 SAN JUAN CAPISTRANO, CAL. COMP N33E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

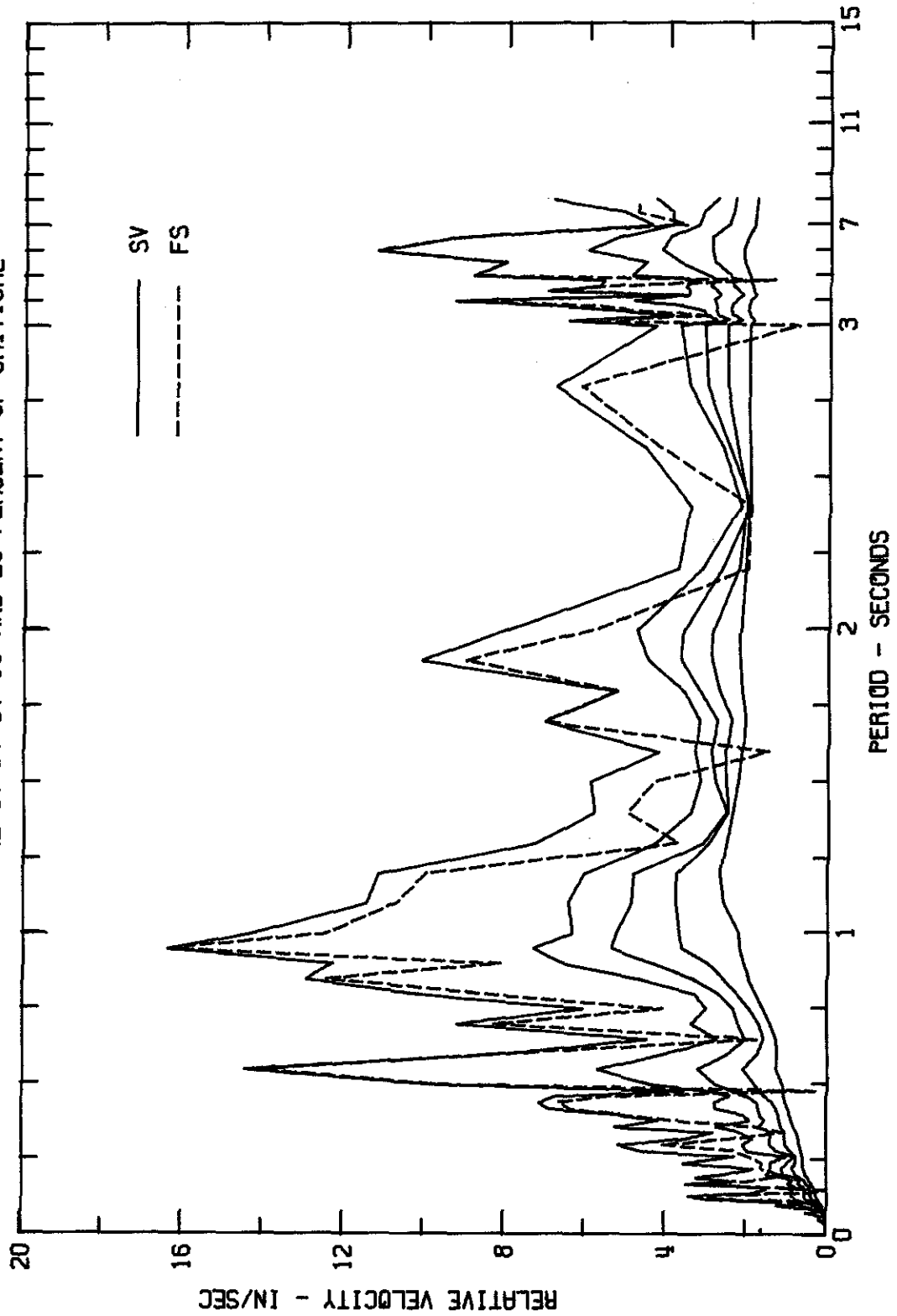
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IIIN195 71.140.0 SAN JUAN CAPISTRANO, CAL. COMP N33E

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

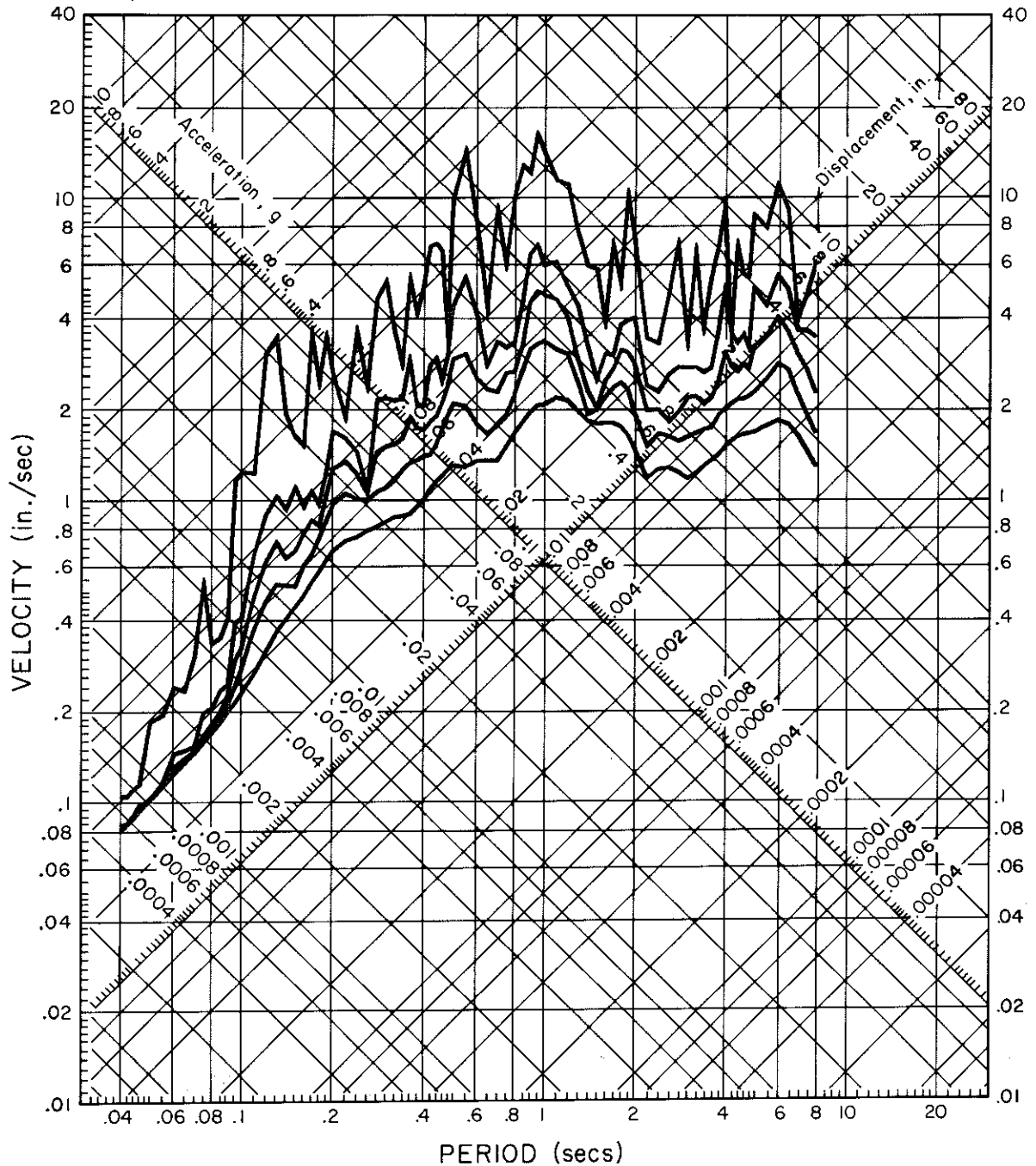


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN195 71.140.0 SAN JUAN CAPISTRANO, CAL. COMP N57W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN195 71.140.0 SAN JUAN CAPISTRANO, CAL. COMP N57W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

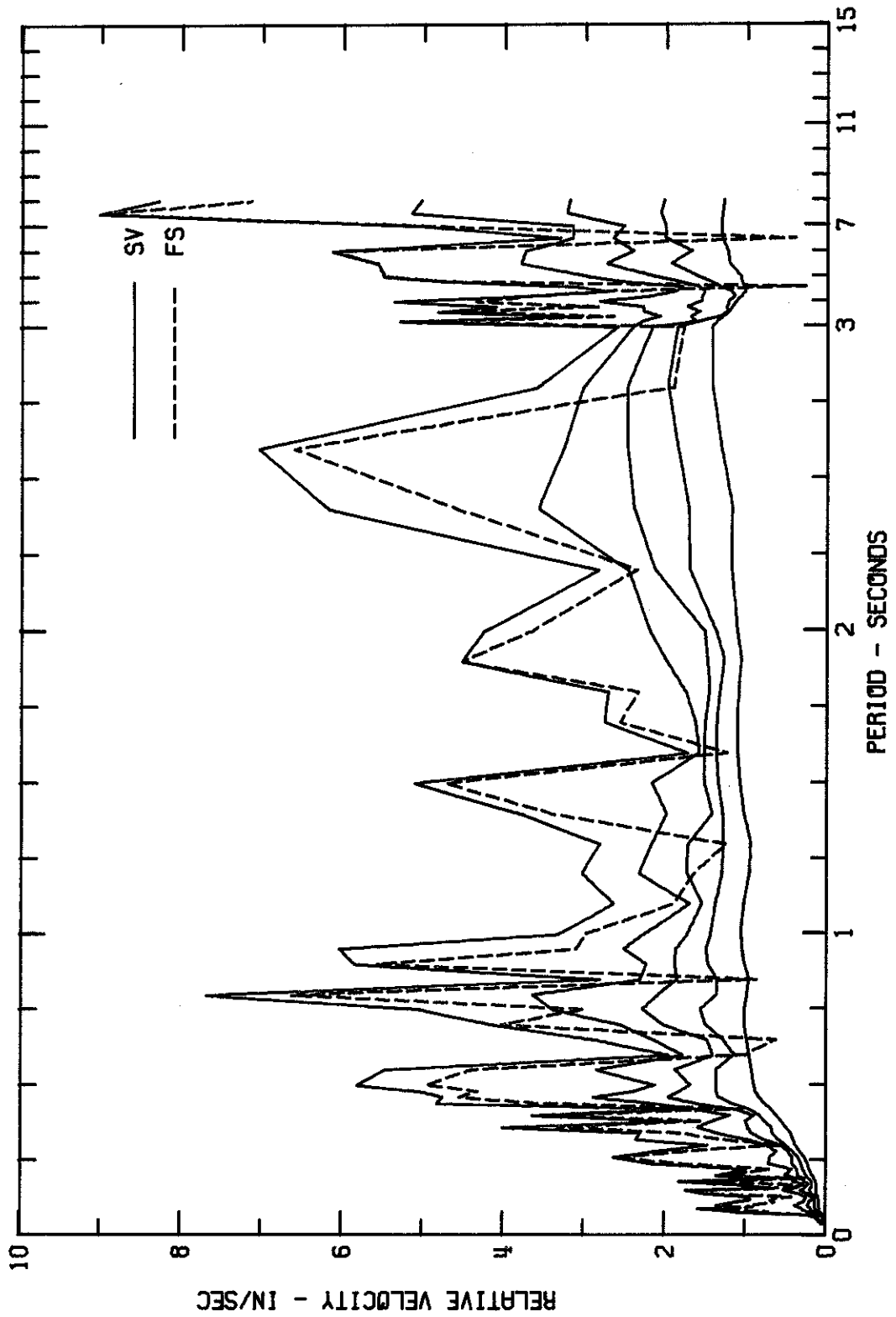
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0.042	186-4	695-6	517-4	403-4	104-3	563-6	211-4	326-4	843-4	563-6	188-4	326-4	843-4	566-6	180-4	328-4	847-4
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DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
11JN195 71.140.0 SAN JUAN CAPISTRANO, CAL. COMP DOWN
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

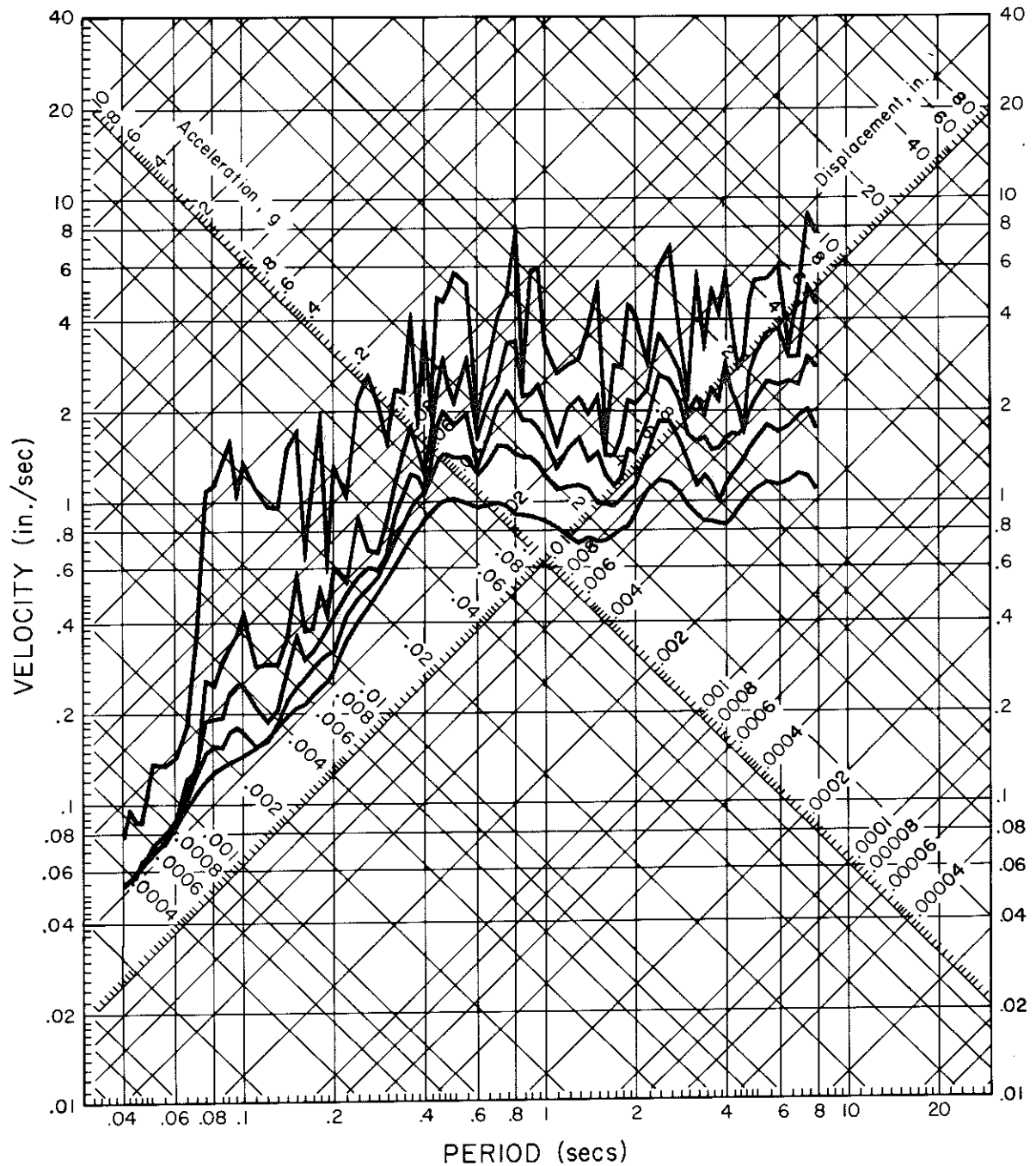


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN195 71.140.0 SAN JUAN CAPISTRANO, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IIIN195 71.140.0 SAN JUAN CAPISTRANO, CAL. COMP DOWN

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

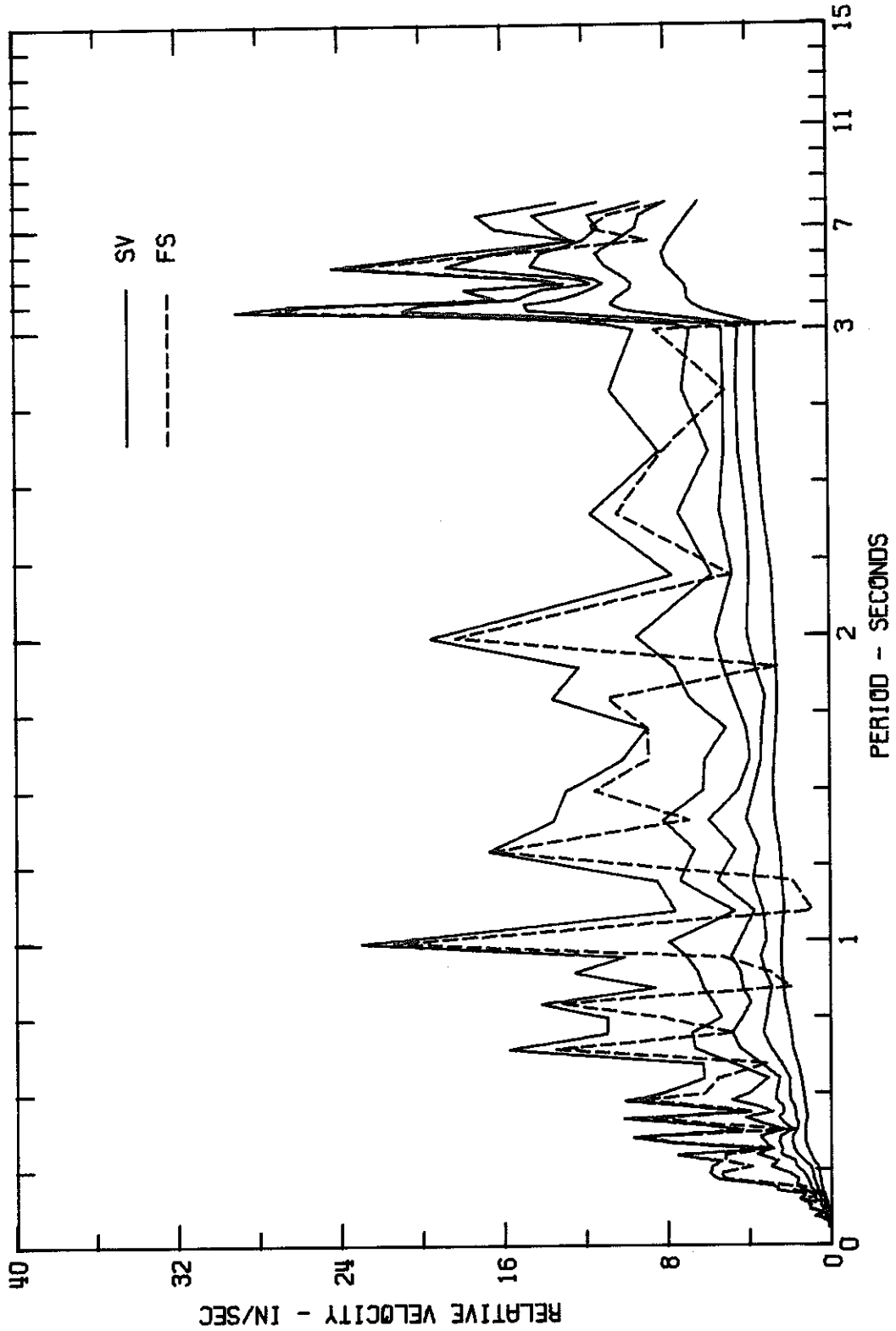
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0.80	662-2	100-2	769-2	160-3	786-2	442-3	364-2	707-4	347-2	270-3	208-2	434-4	212-2	186-3	136-2	304-4	146-2	117-3	985-3	204-4	922-3
0.85	862-3	368-3	279-2	521-4	272-2	307-3	230-2	435-4	227-2	255-3	185-2	363-4	188-2	193-3	135-2	279-4	142-2	124-3	969-3	195-4	917-3
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RELATIVE VELOCITY RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111N196 71.141.0 LONG BEACH STATE COLLEGE, GROUND LEVEL, LONG BEACH, CAL. COMP N76W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

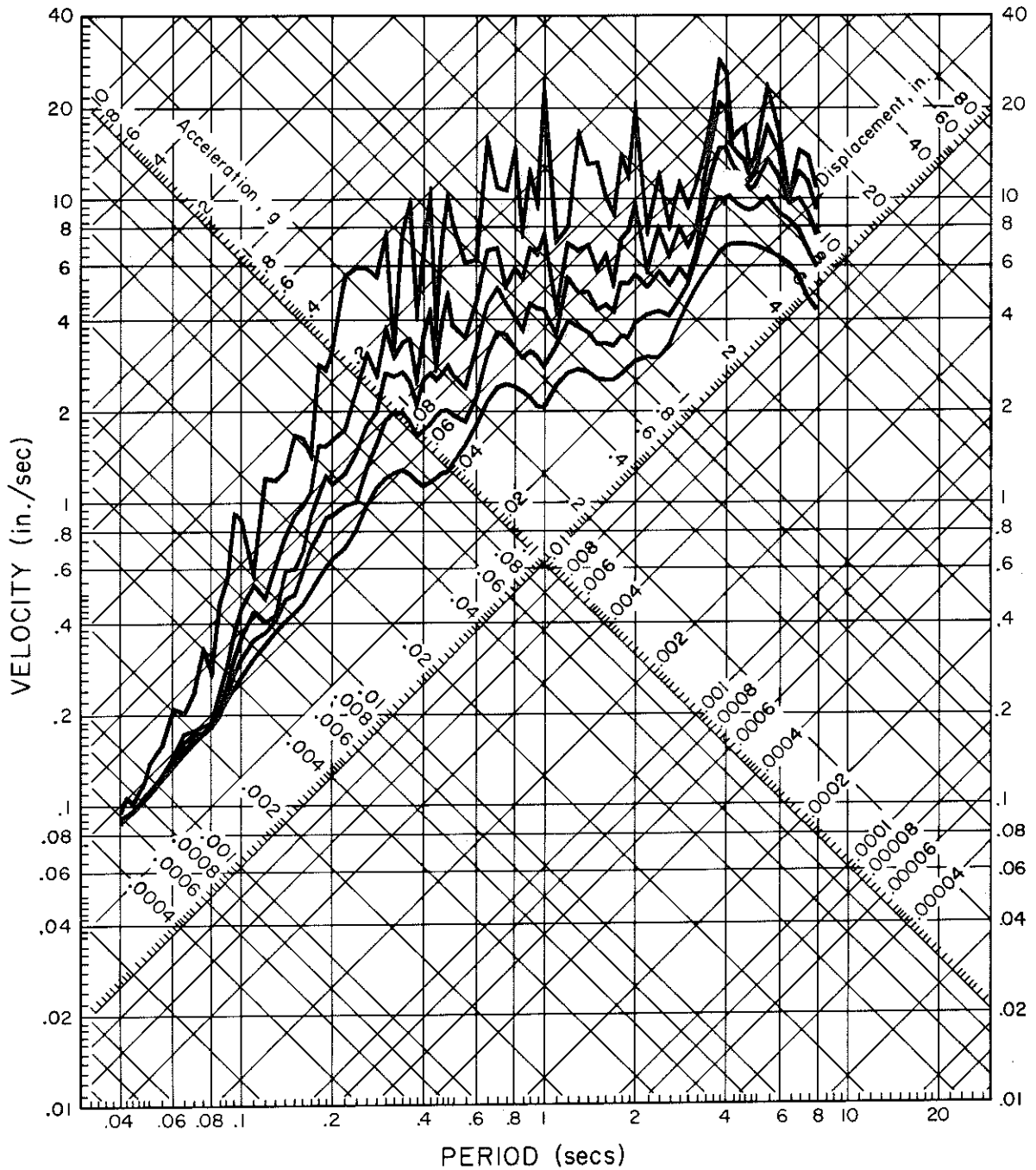


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN196 71.141.0 LONG BEACH STATE COLLEGE, GROUND LEVEL, LONG BEACH, CAL. COMP N76W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



III196 71.141.0 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
LONG BEACH STATE COLLEGE, GROUND LEVEL, LONG BEACH, CAL. COMP N76W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
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0.042	156-4	714-6	282-4	415-4	106-3	625-6	150-4	362-4	935-4	620-6	139-4	360-4	928-4	618-6	131-4	358-4	924-4
0.044	219-4	711-6	234-4	374-4	101-3	676-6	159-4	357-4	965-4	675-6	150-4	357-4	964-4	674-6	145-4	356-4	962-4
0.046	183-4	811-6	308-4	392-4	110-3	744-6	185-4	359-4	101-3	737-6	164-4	356-4	100-3	734-6	160-4	355-4	100-3
0.048	313-4	920-6	344-4	408-4	120-3	825-6	218-4	366-4	108-3	804-6	190-4	356-4	105-3	800-6	177-4	356-4	104-3
0.050	624-4	110-5	657-4	453-4	139-3	894-6	245-4	365-4	112-3	880-6	219-4	360-4	110-3	880-6	197-4	360-4	109-3
0.055	550-4	140-5	720-4	476-4	161-3	110-5	320-4	375-4	126-3	110-5	277-4	374-4	126-3	108-5	256-4	369-4	124-3
0.060	126-3	201-5	126-3	573-4	211-3	141-5	386-4	400-4	147-3	137-5	320-4	391-4	144-3	133-5	318-4	381-4	139-3
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0.110	392-3	103-4	508-3	872-4	589-3	946-5	364-3	798-4	540-3	770-5	264-3	652-4	440-3	622-5	189-3	533-4	355-3
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IIINI96 71.141.0 LONG BEACH STATE COLLEGE, GROUND LEVEL, LONG BEACH, CAL. COMP N76W

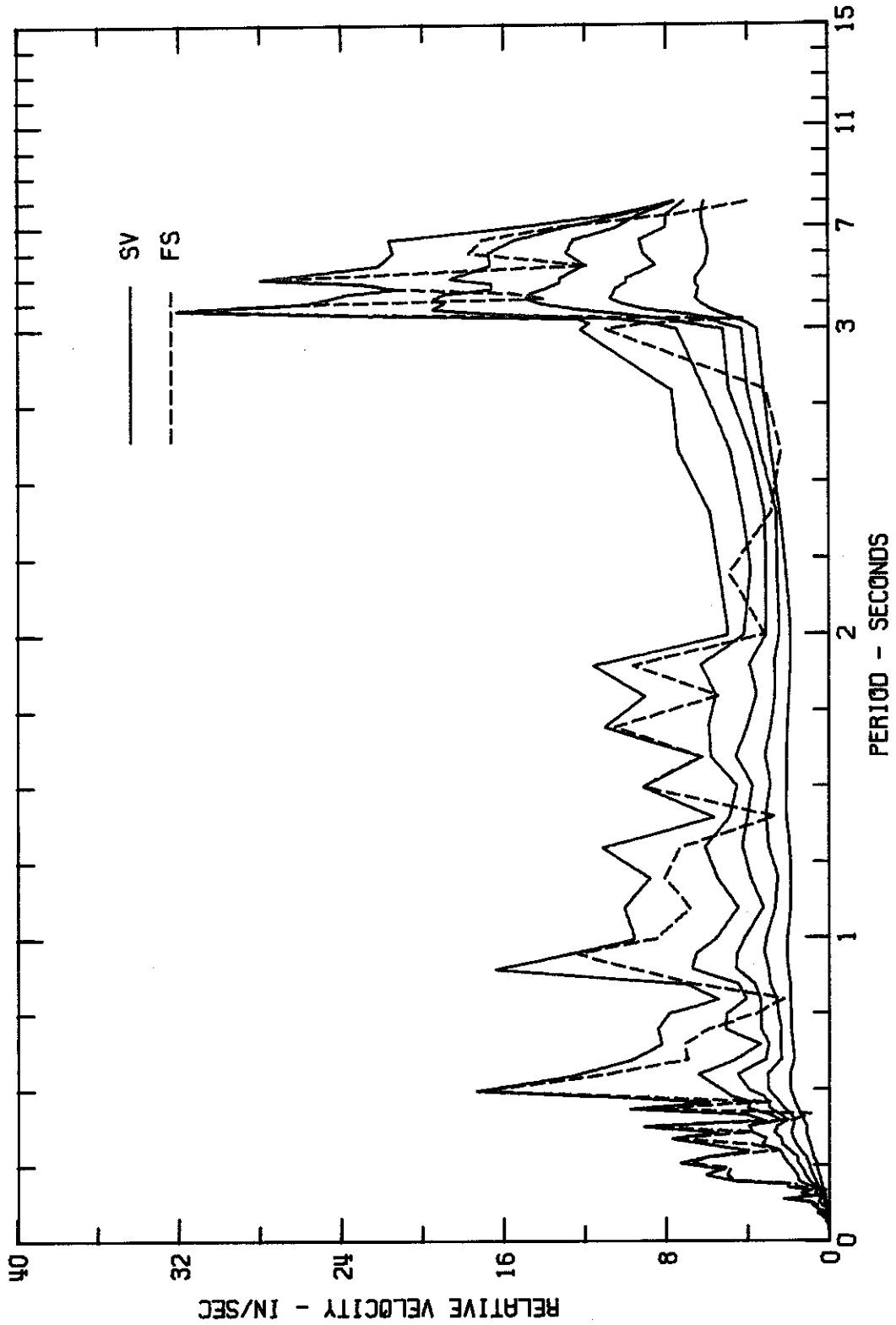
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RELATIVE VELOCITY RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN196 71.141.0 LONG BEACH STATE COLLEGE, GROUND LEVEL, LONG BEACH, CAL. COMP S14W
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

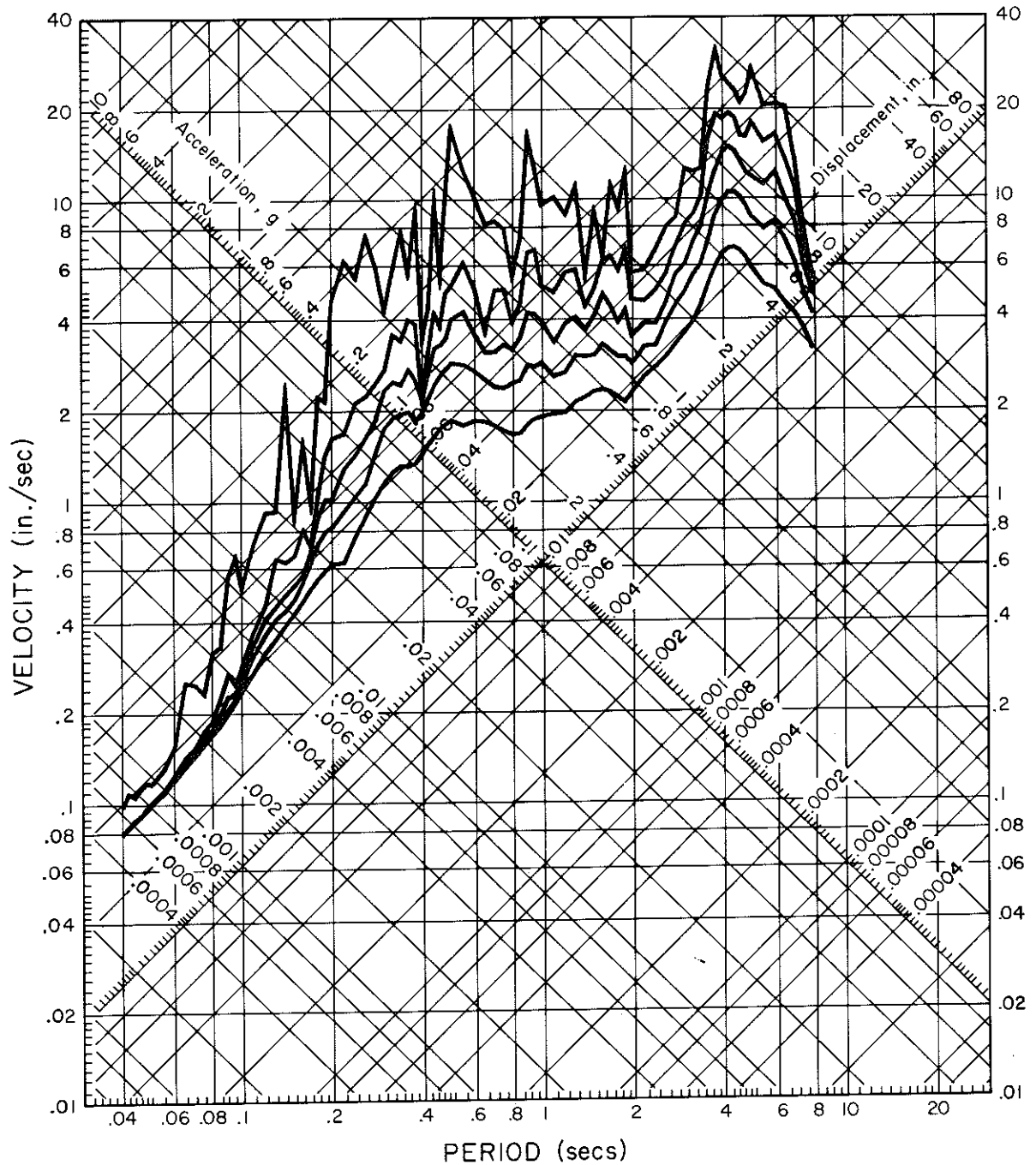


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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



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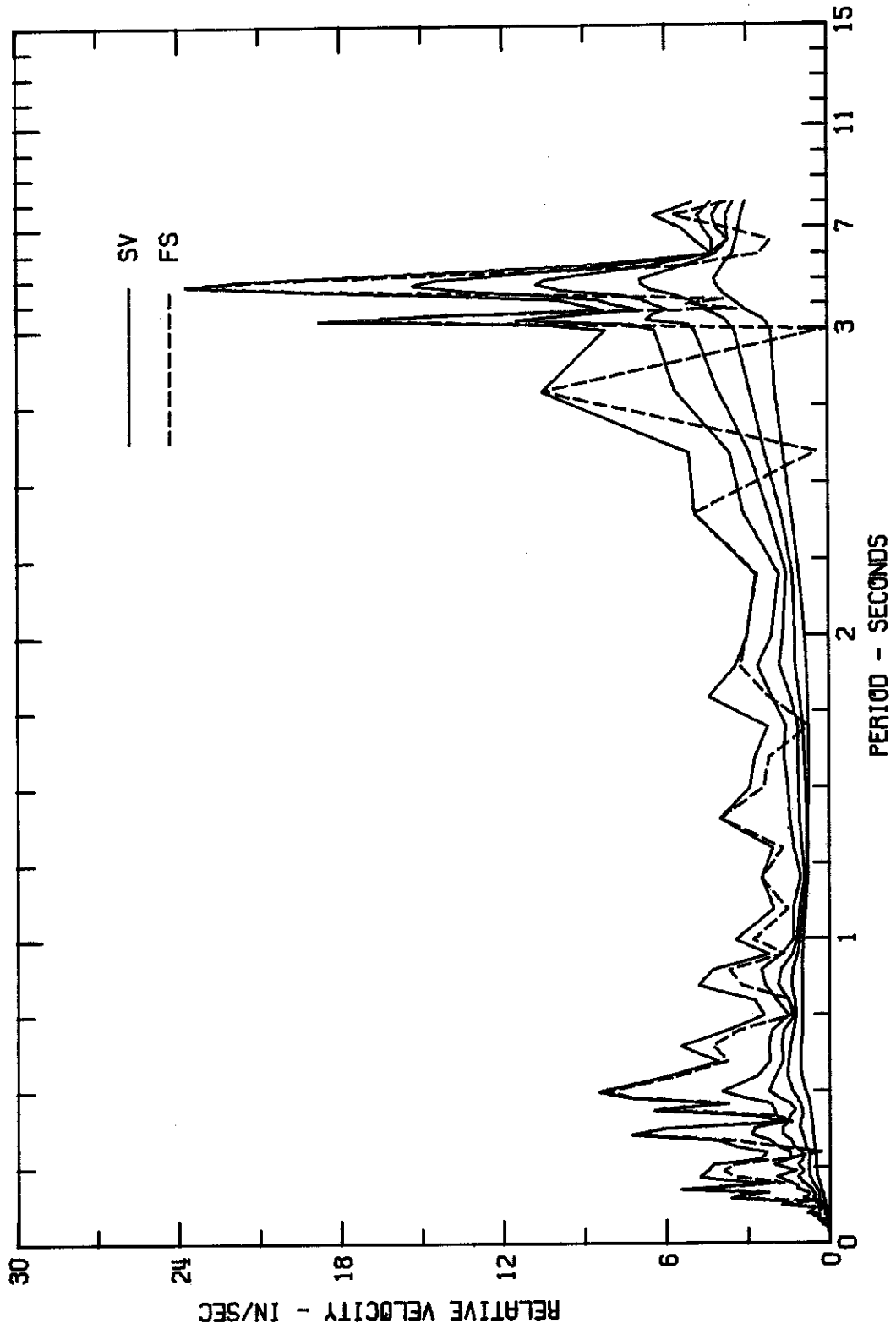
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0.80	222-2	711-3	545-2	113-3	558-2	503-3	408-2	805-4	395-2	408-3	342-2	657-4	320-2	316-3	263-2	520-4	248-2	214-3	192-2	364-4	168-2
0.85	669-2	101-2	704-2	143-3	749-2	618-3	448-2	875-4	457-2	479-3	370-2	680-4	354-2	343-3	292-2	494-4	254-2	228-3	194-2	342-4	169-2
0.90	970-2	238-2	164-1	301-3	166-1	966-3	678-2	122-3	674-2	608-3	463-2	771-4	424-2	410-3	300-2	525-4	286-2	261-3	204-2	346-4	182-2
0.95	124-1	195-2	126-1	221-3	129-1	103-2	654-2	117-3	687-2	636-3	455-2	725-4	421-2	426-3	323-2	494-4	282-2	286-3	211-2	344-4	189-2
1.00	849-2	154-2	959-2	158-3	973-2	834-3	556-2	855-4	524-2	637-3	417-2	655-4	400-2	463-3	311-2	485-4	290-2	306-3	207-2	339-4	192-2
1.10	684-2	181-2	101-1	153-3	103-1	870-3	450-2	736-4	497-2	595-3	327-2	504-4	339-2	458-3	264-2	394-4	262-2	345-3	189-2	308-4	197-2
1.20	810-2	172-2	882-2	122-3	901-2	110-2	552-2	786-4	579-2	751-3	391-2	536-4	393-2	515-3	255-2	372-4	269-2	378-3	190-2	283-4	198-2
1.30	731-2	234-2	111-1	141-3	113-1	113-1	122-2	740-4	591-2	853-3	428-2	519-4	412-2	637-3	301-2	393-4	308-2	447-3	197-2	290-4	216-2
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1.50	916-2	221-2	917-2	100-3	929-2	122-2	453-2	556-4	512-2	100-2	377-2	456-4	418-2	734-3	288-2	338-4	307-2	558-3	210-2	269-4	234-2
1.60	625-2	164-2	626-2	656-4	645-2	161-2	586-2	645-4	633-2	125-2	462-2	502-4	491-2	854-3	319-2	347-4	335-2	604-3	210-2	257-4	237-2
1.70	105-1	308-2	110-1	109-3	113-1	177-2	593-2	628-4	656-2	120-2	402-2	427-4	444-2	858-3	286-2	308-4	317-2	630-3	196-2	237-4	223-2
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2.00	318-2	183-2	499-2	468-4	575-2	149-2	418-2	382-4	469-2	113-2	308-2	291-4	356-2	916-3	245-2	238-4	287-2	740-3	190-2	200-4	232-2
2.20	492-2	206-2	542-2	436-4	589-2	162-2	387-2	344-4	465-2	137-2	311-2	292-4	394-2	115-2	256-2	247-4	330-2	917-3	212-2	202-4	262-2
2.40	286-2	263-2	591-2	468-4	690-2	193-2	428-2	343-4	506-2	149-2	323-2	266-4	391-2	126-2	261-2	228-4	331-2	107-2	245-2	202-4	281-2
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2.80	317-2	391-2	779-2	511-4	879-2	316-2	616-2	413-4	710-2	255-2	499-2	334-4	572-2	202-2	406-2	268-4	454-2	149-2	327-2	209-4	336-2
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3.80	321-1	194-1	321-1	137-3	321-1	118-1	195-1	841-4	196-1	774-2	124-1	551-4	128-1	546-2	908-2	393-4	903-2	367-2	589-2	274-4	607-2
4.00	260-1	165-1	260-1	106-3	260-1	119-1	189-1	767-4	188-1	927-2	142-1	595-4	145-1	645-2	102-1	419-4	101-1	422-2	633-2	288-4	664-2
4.20	139-1	164-1	246-1	955-4	246-1	131-1	194-1	765-4	197-1	101-1	149-1	592-4	152-1	720-2	107-1	426-4	107-1	464-2	658-2	291-4	694-2
4.40	153-1	163-1	236-1	864-4	233-1	132-1	188-1	701-4	189-1	102-1	147-1	546-4	147-1	754-2	106-1	408-4	107-1	489-2	651-2	284-4	698-2
4.60	213-1	156-1	213-1	754-4	213-1	120-1	165-1	585-4	165-1	988-2	139-1	480-4	135-1	756-2	104-1	374-4	103-1	498-2	640-2	267-4	680-2
4.80	229-1	175-1	229-1	779-4	229-1	125-1	166-1	557-4	164-1	955-2	132-1	426-4	125-1	739-2	997-2	336-4	968-2	493-2	658-2	245-4	645-2
5.00	278-1	221-1	280-1	904-4	277-1	145-1	186-1	598-4	183-1	964-2	132-1	396-4	121-1	703-2	996-2	294-4	883-2	478-2	658-2	220-4	600-2
5.50	118-1	182-1	221-1	616-4	208-1	138-1	166-1	467-4	157-1	994-2	120-1	338-4	113-1	706-2	855-2	245-4	832-2	473-2	682-2	176-4	528-2
6.00	177-1	200-1	214-1	570-4	210-1	160-1	167-1	456-4	168-1	120-1	129-1	343-4	125-1	815-2	918-2	239-4	853-2	485-2	592-2	161-4	507-2
6.50	170-1	213-1	216-1	518-4	206-1	142-1	154-1	345-4	137-1	105-1	125-1	257-4	102-1	760-2	935-2	188-4	735-2	470-2	603-2	128-4	454-2
7.00	134-1	151-1	157-1	317-4	136-1	123-1	131-1	257-4	114-2	948-2	104-1	199-4	851-2	693-2	805-2	149-4	622-2	469-2	620-2	111-4	421-2
7.50	760-2	960-2	105-1	174-4	804-2	852-2	101-1	155-4	714-2	720-2	928-2	132-4	603-2	589-2	796-2	110-4	493-2	446-2	631-2	191-5	373-2
8.00	394-2	733-2	760-2	117-4	575-2	694-2	767-2	111-4	545-2	631-2	758-2	101-4	496-2	536-2	714-2	892-5	421-2	110-2	615-2	772-5	322-2

RELATIVE VELOCITY RESPONSE SPECTRUM
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
71.141.0 LONG BEACH STATE COLLEGE, GROUND LEVEL, LONG BEACH, CAL. COMP DOWN
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

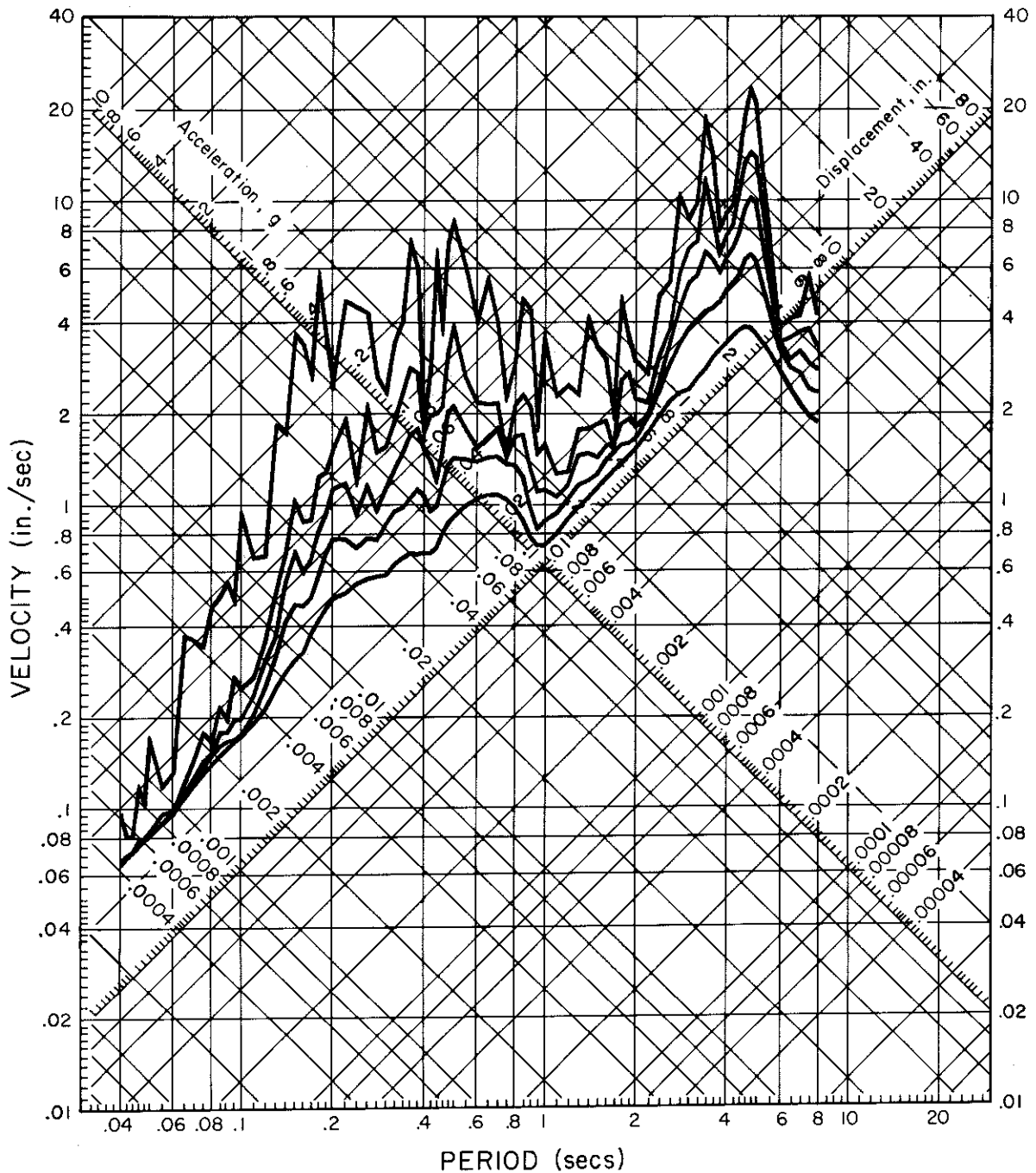


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN196 71.141.0 LONG BEACH STATE COLLEGE, GROUND LEVEL, LONG BEACH, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IIIN196 71.141.0 LONG BEACH STATE COLLEGE, GROUND LEVEL, LONG BEACH, CAL. COMP DOWN
 SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

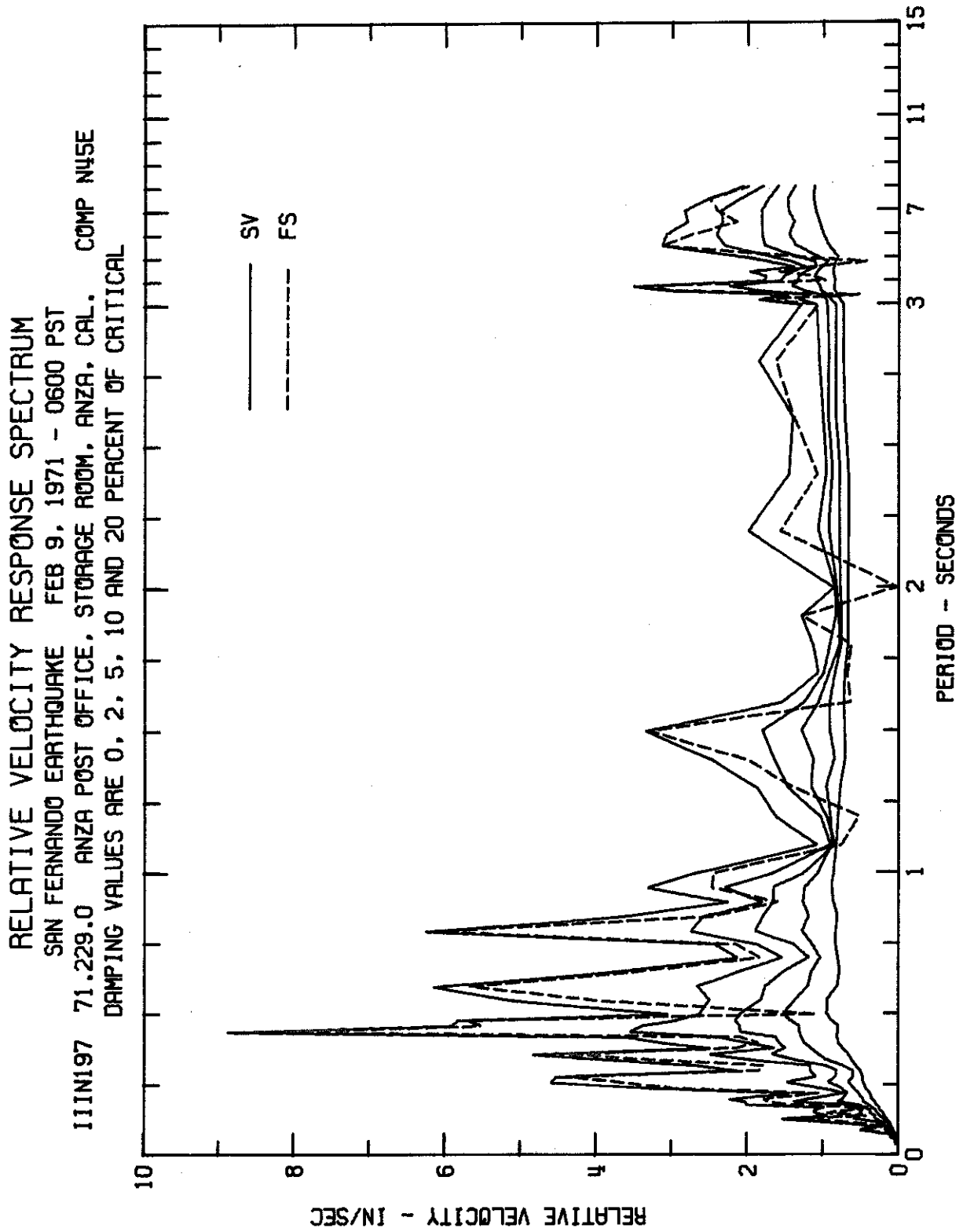
THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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0.040	283-4	609-6	414-4	389-4	957-4	426-6	195-4	272-4	669-4	420-6	158-4	269-4	661-4	418-6	127-4	268-4	656-4
0.042	265-4	537-6	296-4	311-4	803-4	465-6	187-4	269-4	695-4	462-6	164-4	267-4	691-4	460-6	137-4	267-4	689-4
0.044	140-4	569-6	270-4	300-4	813-4	504-6	184-4	266-4	719-4	506-6	165-4	267-4	723-4	508-6	149-4	267-4	722-4
0.046	250-4	861-6	672-4	416-4	117-3	574-6	217-4	277-4	784-4	557-6	182-4	269-4	761-4	553-6	162-4	267-4	756-4
0.048	176-4	795-6	518-4	352-4	104-3	606-6	262-4	269-4	794-4	605-6	219-4	268-4	792-4	602-6	182-4	266-4	788-4
0.050	811-4	133-5	107-3	547-4	168-3	671-6	278-4	274-4	843-4	654-6	249-4	267-4	822-4	649-6	208-4	266-4	816-4
0.055	929-4	103-5	936-4	349-4	118-3	842-6	352-4	285-4	962-4	788-6	321-4	266-4	922-4	780-6	282-4	264-4	891-4
0.060	656-4	127-5	754-4	361-4	133-3	941-6	590-4	267-4	985-4	918-6	435-4	260-4	962-4	925-6	366-4	262-4	968-4
0.065	309-3	387-5	321-3	938-4	374-3	125-5	853-4	303-4	121-3	116-5	568-4	281-4	112-3	113-5	454-4	275-4	109-3
0.070	294-3	402-5	329-3	840-4	361-3	163-5	835-4	342-4	146-3	142-5	622-4	297-4	127-3	137-5	507-4	287-4	123-3
0.075	199-3	410-5	324-3	746-4	344-3	213-5	104-3	390-4	179-3	171-5	761-4	313-4	143-3	163-5	540-4	298-4	137-3
0.080	351-3	596-5	430-3	953-4	468-3	210-5	114-3	338-4	165-3	195-5	813-4	312-4	153-3	191-5	660-4	306-4	150-3
0.085	435-3	683-5	472-3	967-4	505-3	293-5	122-3	417-4	217-3	242-5	947-4	343-4	179-3	219-5	759-4	311-4	162-3
0.090	523-3	804-5	518-3	101-3	561-3	282-5	135-3	357-4	197-3	257-5	103-3	323-4	197-3	240-5	840-4	305-4	167-3
0.095	379-3	740-5	436-3	838-4	489-3	411-5	201-3	467-4	272-3	299-5	128-3	339-4	197-3	256-5	926-4	293-4	169-3
0.100	582-3	149-4	858-3	152-3	939-3	397-5	207-3	408-4	249-3	315-5	137-3	321-4	198-3	281-5	101-3	289-4	176-3
0.110	317-3	130-4	600-3	999-4	675-3	475-5	200-3	402-4	271-3	418-5	158-3	352-4	238-3	361-5	127-3	308-4	206-3
0.120	380-3	118-4	607-3	929-4	685-3	685-5	425-3	489-4	358-3	587-5	199-3	418-4	307-3	479-5	181-3	348-4	251-3
0.130	177-2	384-4	178-2	232-3	185-2	106-4	429-3	644-4	516-3	769-5	314-3	466-4	372-3	656-5	263-3	485-4	416-3
0.140	663-3	389-4	168-2	202-3	174-2	155-4	641-3	808-4	698-3	124-4	497-3	766-4	704-3	113-4	426-3	520-4	475-3
0.150	333-2	890-4	367-2	404-3	373-2	248-4	990-3	1102-3	889-3	154-4	561-3	618-4	605-3	119-4	419-3	477-4	468-3
0.160	290-2	864-4	331-2	346-3	340-2	226-4	799-3	902-4	889-3	182-4	602-3	649-4	674-3	136-4	407-3	491-4	503-3
0.170	225-2	736-4	266-2	260-3	271-2	244-4	836-3	865-4	902-3	182-4	602-3	649-4	674-3	136-4	407-3	491-4	503-3
0.180	495-2	161-3	552-2	509-3	563-2	360-4	121-2	113-3	123-2	238-4	691-3	759-4	833-3	171-4	496-3	543-4	597-3
0.190	349-2	110-3	364-2	314-3	366-2	394-4	117-2	111-3	130-2	286-4	847-3	817-4	945-3	213-4	595-3	612-4	706-3
0.200	170-2	811-4	244-2	207-3	254-2	492-4	141-2	125-3	154-2	364-4	988-3	928-4	114-2	248-4	655-3	636-4	781-3
0.220	352-2	167-3	481-2	354-3	478-2	680-4	196-2	144-3	194-2	418-4	118-2	882-4	119-2	272-4	761-3	571-4	779-3
0.240	389-2	173-3	450-2	308-3	455-2	466-4	123-2	830-4	122-2	358-4	973-3	631-4	938-3	278-4	803-3	507-4	728-3
0.260	360-2	180-3	429-2	273-3	436-2	878-4	204-2	133-3	212-2	485-4	119-2	739-4	117-2	325-4	801-3	508-4	785-3
0.280	150-2	118-3	254-2	155-3	266-2	674-4	144-2	875-4	151-2	431-4	991-3	563-4	967-3	344-4	768-3	456-4	773-3
0.300	319-3	113-3	231-2	128-3	237-2	752-4	149-2	852-4	157-2	553-4	105-2	624-4	116-2	418-4	804-3	481-4	876-3
0.320	200-2	180-3	349-2	180-3	354-2	986-4	194-2	981-4	193-2	681-4	133-2	688-4	133-2	491-4	918-3	504-4	965-3
0.340	358-2	223-3	412-2	197-3	412-2	128-3	227-2	114-3	237-2	815-4	145-2	722-4	150-2	535-4	972-3	488-4	989-3
0.360	712-2	425-3	733-2	335-3	741-2	164-3	289-2	129-3	281-2	991-4	174-2	785-4	173-2	611-4	104-2	487-4	106-2
0.380	599-2	370-3	599-2	262-3	611-2	166-3	276-2	117-3	275-2	109-3	176-2	783-4	180-2	690-4	111-2	497-4	108-2
0.400	139-2	115-3	168-2	736-4	180-2	112-3	171-2	720-4	176-2	983-4	153-2	626-4	154-2	687-4	108-2	450-4	104-2
0.420	200-2	189-3	277-2	110-3	284-2	133-3	198-2	771-4	199-2	942-4	145-2	544-4	140-2	643-4	101-2	382-4	962-3
0.440	647-2	454-3	646-2	240-3	649-2	142-3	204-2	753-4	202-2	851-4	127-2	452-4	121-2	699-4	102-2	372-4	998-3
0.460	372-2	293-3	392-2	141-3	401-2	157-3	218-2	759-4	214-2	109-3	147-2	534-4	149-2	866-4	111-2	423-4	118-2
0.480	725-2	563-3	729-2	250-3	737-2	244-3	316-2	109-3	320-2	157-3	190-2	704-4	206-2	104-3	121-2	470-4	136-2
0.500	823-2	693-3	853-2	283-3	871-2	312-3	397-2	128-3	393-2	170-3	228-2	706-4	214-2	115-3	139-2	477-4	144-2
0.550	559-2	537-3	591-2	181-3	613-2	232-3	266-2	785-4	265-2	157-3	199-2	535-4	180-2	124-3	156-2	427-4	142-2
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0.650	430-2	580-3	549-2	140-3	560-2	224-3	225-2	545-4	217-2	175-3	177-2	430-4	170-2	150-3	145-2	372-4	140-2
0.700	337-2	457-3	379-2	954-4	410-2	243-3	211-2	509-4	219-2	202-3	169-2	424-4	181-2	163-3	132-2	349-4	146-2

IIIN196 71.141.0 LONG BEACH STATE COLLEGE, GROUND LEVEL, LONG BEACH, CAL. COMP DOWN

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT			
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV		
0.75	137-2	274-3	242-2	499-4	230-2	176-3	151-2	321-4	147-2	173-3	128-2	319-4	145-2	164-3	124-2	309-4	137-2		
0.80	149-2	375-3	276-2	599-4	294-2	274-3	195-2	438-4	215-2	217-3	154-2	348-4	170-2	173-3	131-2	285-4	136-2		
0.85	325-2	653-3	485-2	924-4	442-2	347-4	238-2	447-4	233-2	233-3	191-2	332-4	172-2	168-3	143-2	246-4	124-2		
0.90	369-2	638-3	430-2	805-4	445-2	304-3	252-2	384-4	212-2	189-3	178-2	242-4	132-2	140-3	137-2	182-4	981-3		
0.95	168-2	293-3	223-2	332-4	194-2	225-3	176-2	255-4	148-2	168-3	135-2	192-4	111-2	126-3	119-2	144-4	837-3		
1.00	279-2	567-3	345-2	579-4	356-2	254-3	133-2	260-4	160-2	179-3	120-2	184-4	113-2	141-3	108-2	146-4	889-3		
1.10	153-2	405-3	204-2	342-4	231-2	224-3	133-2	189-4	128-2	187-3	109-2	159-4	107-2	165-3	962-3	142-4	947-3		
1.20	250-2	479-3	250-2	340-4	250-2	247-3	105-2	175-4	129-2	225-3	911-3	160-4	117-2	202-3	815-3	145-4	105-2		
1.30	172-2	483-3	208-2	292-4	233-2	372-3	134-2	225-4	180-2	305-3	103-2	185-4	147-2	242-3	829-3	148-4	117-2		
1.40	403-2	929-3	403-2	484-4	417-2	402-3	148-2	210-4	180-2	334-3	112-2	175-4	150-2	270-3	863-3	143-4	121-2		
1.50	240-2	795-3	292-2	361-4	333-2	448-3	155-2	203-4	187-2	346-3	115-2	158-4	144-2	304-3	894-3	139-4	127-2		
1.60	222-2	778-3	274-2	310-4	305-2	487-3	168-2	194-4	191-2	404-3	119-2	161-4	159-2	362-3	947-3	146-4	142-2		
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1.80	226-2	135-2	444-2	428-4	473-2	750-3	215-2	237-4	261-2	538-3	144-2	170-4	188-2	458-3	112-2	146-4	160-2		
1.90	329-2	110-2	345-2	312-4	364-2	833-3	264-2	236-4	275-2	587-3	183-2	167-4	194-2	489-3	127-2	139-4	161-2		
2.00	301-2	963-3	302-2	246-4	302-2	721-3	212-2	184-4	226-2	582-3	168-2	149-4	182-2	534-3	128-2	137-4	167-2		
2.20	266-2	961-3	267-2	203-4	274-2	769-3	183-2	162-4	219-2	707-3	158-2	149-4	202-2	685-3	135-2	164-4	239-2		
2.40	496-2	190-2	497-2	337-4	497-2	119-2	317-2	212-4	313-2	980-3	222-2	174-4	256-2	913-3	179-2	164-4	239-2		
2.60	429-3	229-2	516-2	346-4	553-2	160-2	366-2	242-4	387-2	144-2	295-2	219-4	348-2	122-2	238-2	188-4	296-2		
2.80	105-1	470-2	105-1	613-4	105-1	262-2	567-2	342-4	588-2	202-2	408-2	265-4	454-2	154-2	293-2	205-4	346-2		
3.00	761-4	424-2	819-2	482-4	889-2	341-2	642-2	388-4	714-2	262-2	495-2	299-4	549-2	185-2	350-2	213-4	388-2		
3.20	904-2	512-2	1033-1	512-4	100-1	383-2	734-2	383-4	753-2	296-2	516-2	296-4	581-2	212-2	366-2	215-4	417-2		
3.40	172-1	100-1	188-1	892-4	186-1	633-2	115-1	5611-4	117-1	374-2	674-2	333-4	692-2	238-2	381-2	214-4	440-2		
3.60	144-1	829-2	144-1	654-4	144-1	521-2	927-2	411-4	909-2	372-2	647-2	295-4	650-2	259-2	419-2	208-4	453-2		
3.80	337-2	498-2	831-2	353-4	824-2	413-2	707-2	293-4	684-2	357-2	596-2	254-4	591-2	287-2	456-2	207-4	475-2		
4.00	522-2	590-2	925-2	377-4	926-2	499-2	798-2	319-4	785-2	423-2	652-2	272-4	665-2	330-2	481-2	215-4	519-2		
4.20	383-2	659-2	994-2	382-4	987-2	569-2	854-2	330-4	852-2	478-2	690-2	279-4	715-2	365-2	525-2	217-4	548-2		
4.40	101-1	969-2	141-1	512-4	138-1	757-2	107-1	400-4	108-1	562-2	777-2	299-4	803-2	406-2	574-2	218-4	580-2		
4.60	194-1	142-1	194-1	686-4	194-1	100-1	136-1	484-4	136-1	707-2	989-2	343-4	966-2	479-2	656-2	236-4	654-2		
4.80	236-1	180-1	237-1	800-4	236-1	112-1	153-1	498-4	146-1	799-2	107-1	356-4	104-1	518-2	690-2	234-4	678-2		
5.00	209-1	167-1	216-1	686-4	211-1	112-1	144-1	460-4	141-1	791-2	104-1	325-4	994-2	512-2	694-2	214-4	644-2		
5.50	540-2	756-2	963-2	255-4	864-2	626-2	816-2	212-4	715-2	508-2	673-2	173-4	580-2	400-2	539-2	139-4	457-2		
6.00	248-2	366-2	428-2	105-4	383-2	330-2	426-2	939-5	345-2	333-2	435-2	958-5	349-2	315-2	413-2	927-5	330-2		
6.50	211-2	429-2	494-2	103-4	415-2	372-2	426-2	902-5	359-2	315-2	367-2	771-5	304-2	296-2	371-2	743-5	286-2		
7.00	373-2	474-2	541-2	990-5	425-2	419-2	459-2	877-5	376-2	363-2	411-2	765-5	326-2	306-2	377-2	659-5	275-2		
7.50	571-2	682-2	642-2	124-4	571-2	460-2	480-2	837-5	385-2	353-2	428-2	650-5	296-2	290-2	377-2	551-5	243-2		
8.00	376-2	546-2	500-2	873-5	429-2	429-2	432-2	688-5	337-2	360-2	395-2	582-5	282-2	302-2	350-2	505-5	237-2		

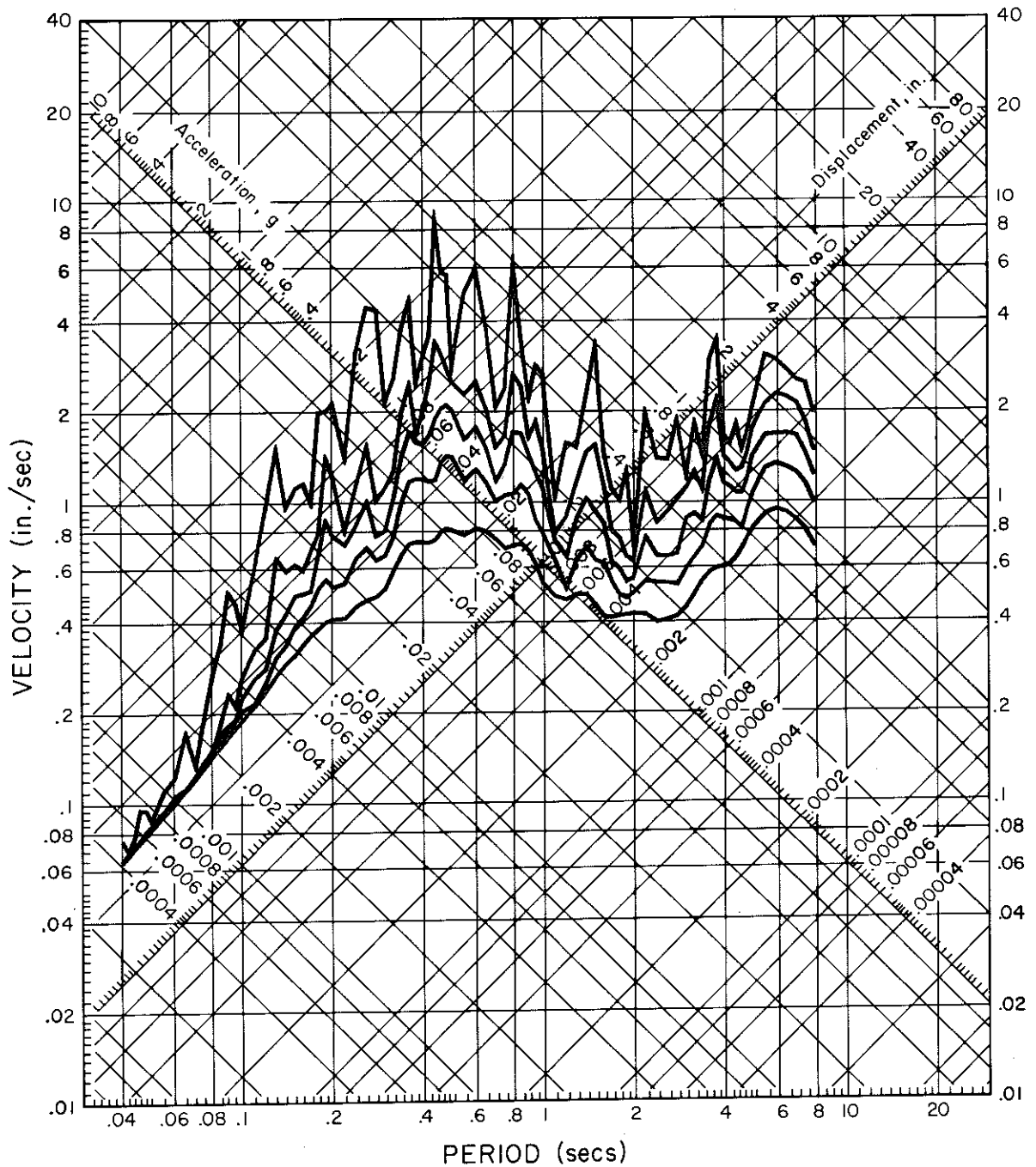


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN197 71.229.0 ANZA POST OFFICE, STORAGE ROOM, ANZA, CAL. COMP NUSE

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IIIN197 71.229.0 ANZA POST OFFICE, STORAGE ROOM, ANZA, CAL. COMP N45E

THE UNITS USED ARE SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

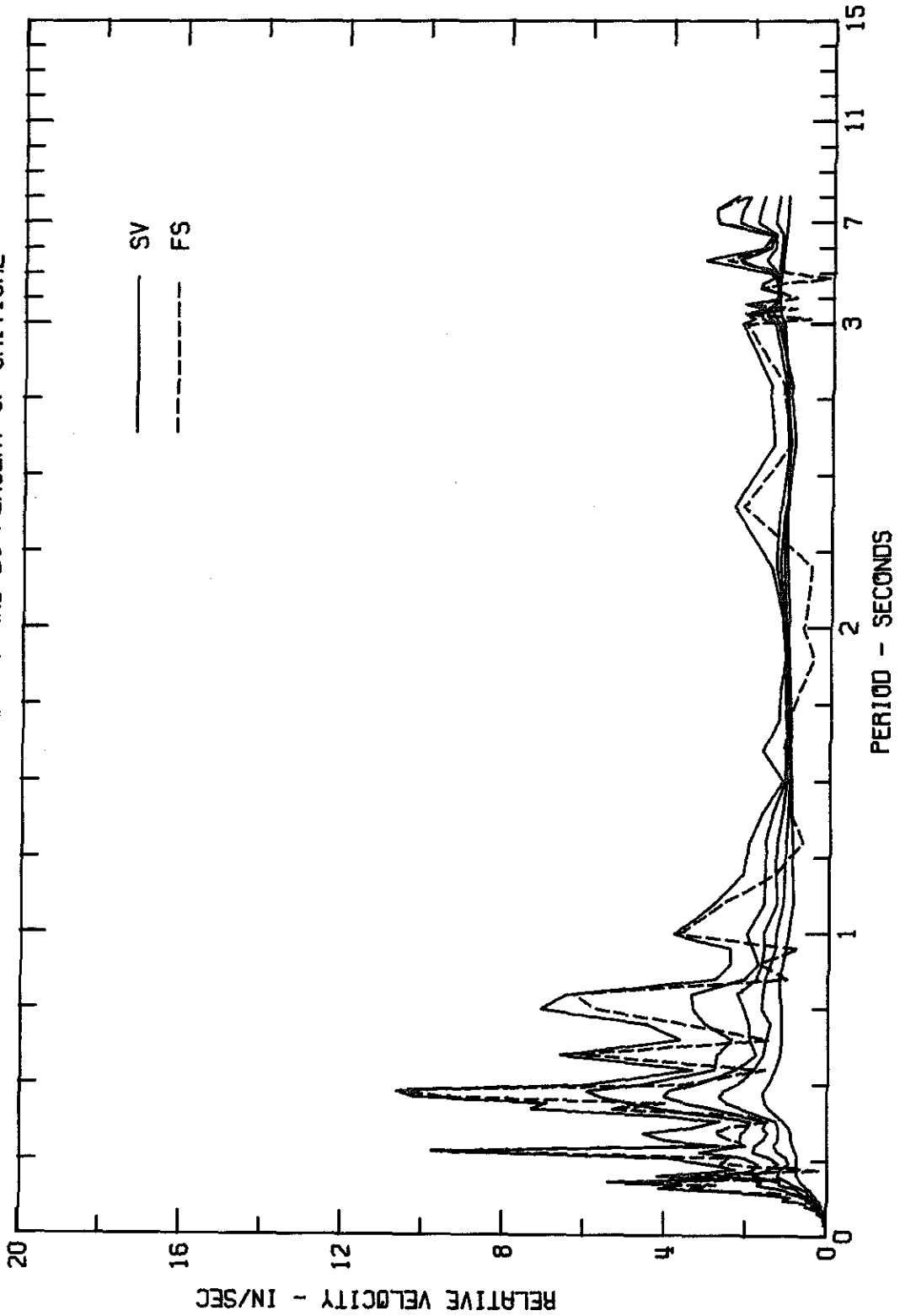
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RELATIVE VELOCITY RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

111N197 71.229.0 ANZA POST OFFICE, STORAGE ROOM, ANZA, CAL. COMP N45W

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

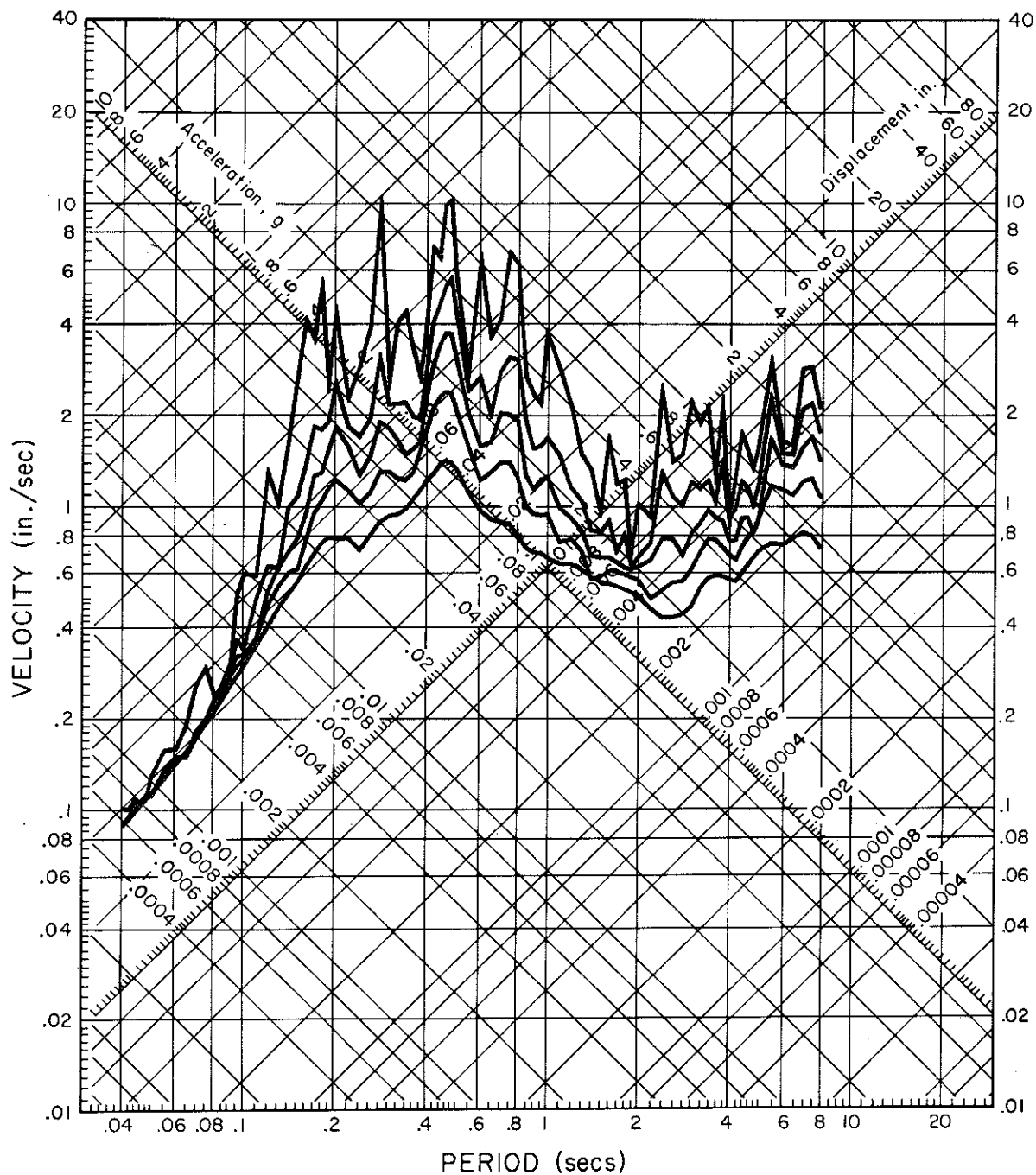


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

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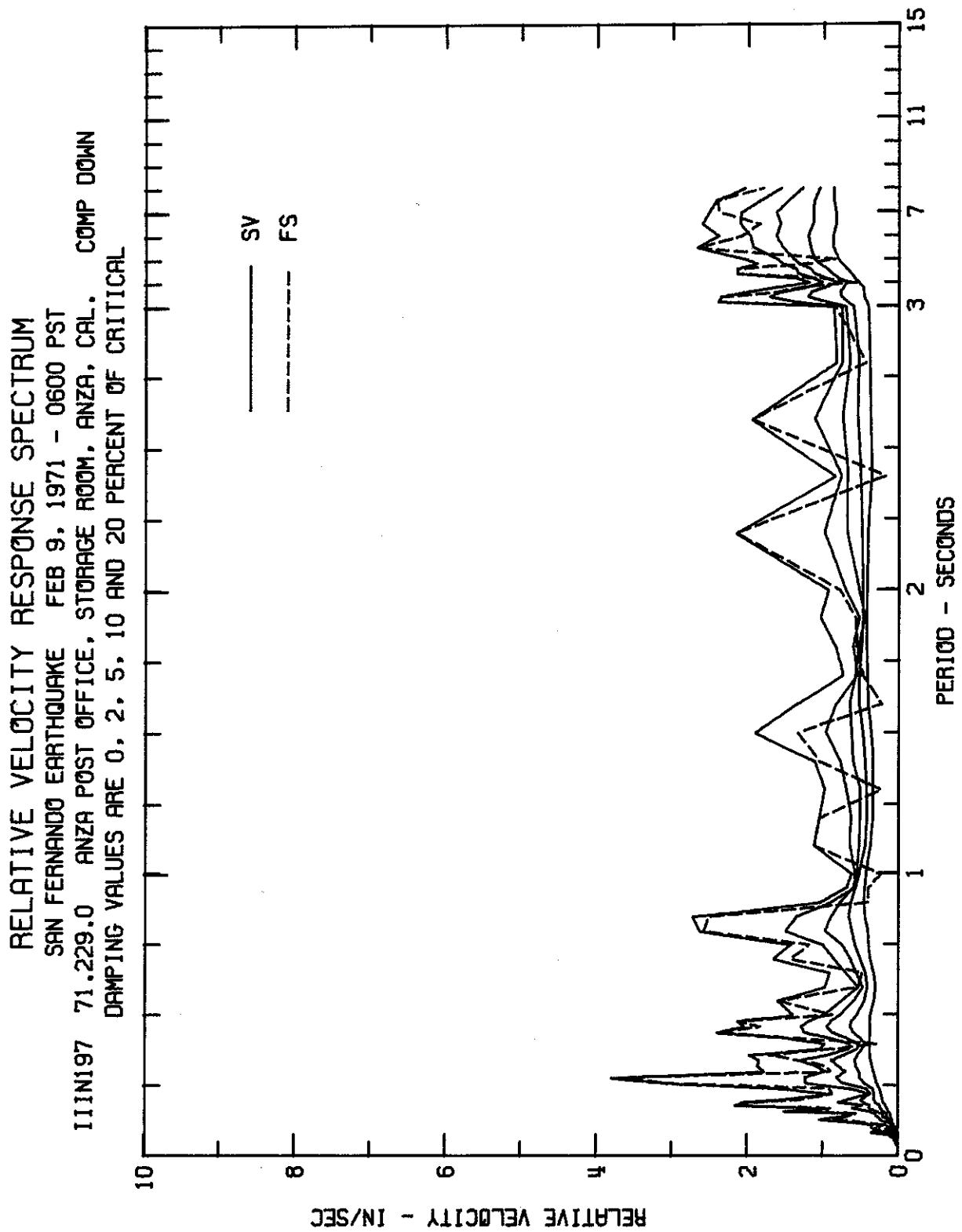
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IIIN197 71.229.0 ANZA POST OFFICE, STORAGE ROOM, ANZA, CAL. COMP N45W

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT					
PPER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	576-2	841-3	711-2	153-3	705-2	379-3	335-2	689-4	318-2	243-3	209-2	445-4	204-2	169-3	164-2	315-4	141-2	106-3	115-2	215-4	889-3
0.80	629-2	821-3	641-2	131-3	644-2	395-3	339-2	631-4	310-2	247-3	224-2	397-4	194-2	160-3	161-2	261-4	125-2	103-3	121-2	188-4	812-3
0.85	101-2	367-3	276-2	520-4	271-2	262-3	206-2	372-4	194-2	172-3	176-2	245-4	127-2	137-3	154-2	199-4	101-2	100-3	120-2	165-4	745-3
0.90	172-2	341-3	244-2	431-4	238-2	225-3	176-2	284-4	157-2	166-3	166-2	211-4	115-2	137-3	144-2	177-4	961-3	102-3	115-2	149-4	717-3
0.95	764-3	335-3	247-2	380-4	221-2	243-3	191-2	276-4	161-2	189-3	160-2	215-4	125-2	144-3	133-2	170-4	954-3	108-3	106-2	143-4	714-3
1.00	371-2	607-3	385-2	620-4	381-2	273-3	205-2	280-4	171-2	202-3	162-2	208-4	127-2	152-3	130-2	163-4	960-3	109-3	100-2	134-4	688-3
1.10	263-2	510-3	285-2	431-4	291-2	260-3	160-2	220-4	148-2	176-3	129-2	150-4	100-2	135-3	112-2	120-4	775-3	115-3	895-3	121-4	657-3
1.20	129-2	417-3	210-2	296-4	218-2	224-3	157-2	159-4	117-2	177-3	132-2	128-4	930-3	151-3	109-2	115-4	792-3	125-3	910-3	113-4	656-3
1.30	683-3	312-3	201-2	188-4	150-2	218-3	161-2	132-4	105-2	175-3	131-2	107-4	847-3	149-3	109-2	980-5	723-3	130-3	955-3	103-4	629-3
1.40	101-2	297-3	166-2	155-4	133-2	188-3	141-2	989-5	847-3	156-3	117-2	831-5	700-3	130-3	103-2	753-5	586-3	132-3	970-3	925-5	594-3
1.50	979-3	234-3	117-2	106-4	982-3	199-3	111-2	907-5	835-3	165-3	106-2	755-5	691-3	142-3	980-3	715-5	594-3	137-3	976-3	850-5	574-3
1.60	113-2	429-3	166-2	171-4	168-2	233-3	108-2	933-5	916-3	176-3	104-2	722-5	691-3	159-3	101-2	705-5	625-3	144-3	991-3	796-5	565-3
1.70	103-2	326-3	128-2	115-4	120-2	236-3	112-2	746-5	825-3	183-3	111-2	591-5	664-3	167-3	105-2	662-5	620-3	150-3	101-2	749-5	555-3
1.80	769-3	356-3	124-2	112-4	124-2	236-3	112-2	554-5	644-3	190-3	112-2	553-5	630-3	179-3	110-2	574-5	594-3	159-3	105-2	661-5	528-3
1.90	412-3	214-3	111-2	608-5	709-3	222-3	117-2	568-5	697-3	204-3	117-2	535-5	642-3	185-3	114-2	536-5	581-3	162-3	107-2	620-5	510-3
2.00	688-3	330-3	119-2	846-5	103-2	222-3	139-2	575-5	776-3	237-3	128-2	506-5	679-3	177-3	118-2	432-5	506-3	163-3	110-2	542-5	467-3
2.20	502-3	328-3	150-2	694-5	938-3	271-3	126-2	891-5	131-2	305-3	112-2	545-5	800-3	206-3	112-2	378-5	540-3	167-3	110-2	482-5	437-3
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2.60	124-2	673-3	157-2	879-5	151-2	455-3	119-2	595-5	102-2	313-3	105-2	423-5	702-3	257-3	112-2	392-5	577-3	200-3	115-2	434-5	449-3
2.80	215-2	108-2	226-2	122-4	226-2	585-3	146-2	666-5	122-2	399-3	138-2	457-5	836-3	304-3	130-2	393-5	637-3	228-3	122-2	409-5	478-3
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3.20	217-2	118-2	218-2	104-4	218-2	673-3	179-2	596-5	124-2	537-3	166-2	487-5	994-3	432-3	150-2	417-5	799-3	320-3	132-2	372-5	591-3
3.40	939-3	740-3	169-2	584-5	129-2	604-3	164-2	478-5	105-2	534-3	157-2	431-5	933-3	452-3	147-2	395-5	789-3	346-3	134-2	367-5	604-3
3.60	217-2	132-2	218-2	935-5	218-2	847-3	146-2	600-5	140-2	553-3	146-2	395-5	915-3	451-3	142-2	356-5	745-3	362-3	134-2	354-5	599-3
3.80	909-3	582-3	132-2	372-5	914-3	594-3	136-2	380-5	933-3	499-3	138-2	320-5	783-3	448-3	138-2	321-5	705-3	372-3	133-2	337-5	585-3
4.00	126-2	851-3	130-2	493-5	127-2	669-3	133-2	388-5	100-2	526-3	135-2	307-5	787-3	454-3	136-2	295-5	679-3	385-3	132-2	319-5	576-3
4.20	176-2	123-2	181-2	654-5	176-2	862-3	136-2	456-5	123-2	654-3	136-2	347-5	934-3	526-3	136-2	280-5	752-3	432-3	132-2	302-5	617-3
4.40	125-2	114-2	176-2	552-5	156-2	854-3	141-2	413-5	116-2	683-3	139-2	332-5	933-3	590-3	137-2	290-5	806-3	480-3	132-2	286-5	656-3
4.60	939-4	103-2	148-2	460-5	135-2	784-3	145-2	348-5	102-2	634-3	142-2	283-5	831-3	647-3	137-2	293-5	847-3	529-3	131-2	270-5	693-3
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5.40	155-2	166-2	155-2	403-5	161-2	155-2	149-2	377-5	150-2	141-2	145-2	343-5	136-2	114-2	129-2	286-5	110-2	827-3	120-2	223-5	799-3
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5.80	293-2	350-2	293-2	637-5	293-2	266-2	227-2	484-5	222-2	206-2	183-2	377-5	172-2	150-2	140-2	282-5	125-2	972-3	115-2	202-5	814-3
6.00	215-2	273-2	239-2	437-5	214-2	226-2	208-2	363-5	178-2	183-2	173-2	294-5	143-2	138-2	134-2	230-5	109-2	945-3	113-2	178-5	742-3

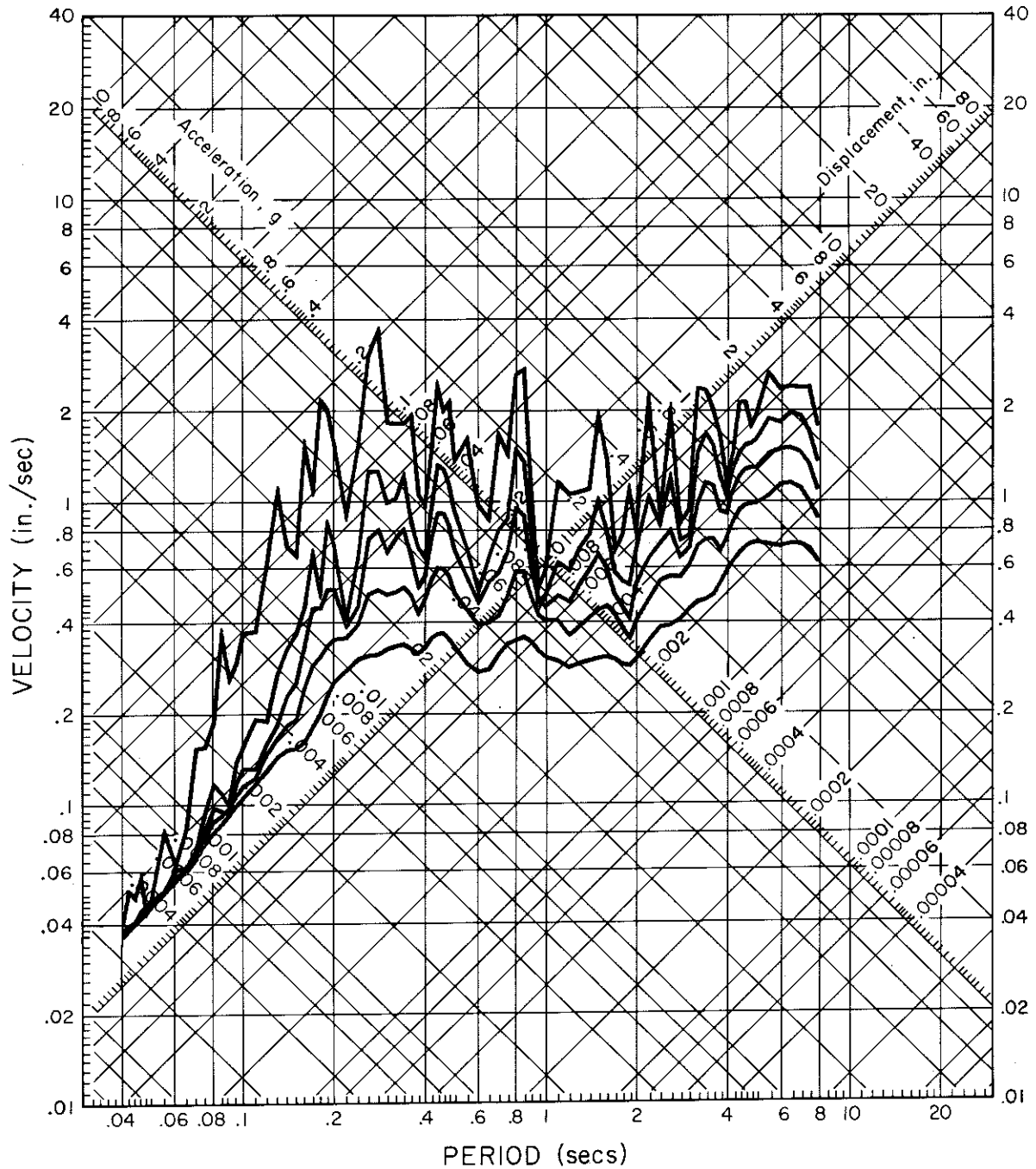


RESPONSE SPECTRUM

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IIIN197 71.229.0 ANZA POST OFFICE, STORAGE ROOM, ANZA, CAL. COMP DOWN

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
 IIIN197 71.229.0 ANZA POST OFFICE, STORAGE ROOM, ANZA, CAL. COMP DOWN

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	162-4	256-6	171-4	163-4	402-4	244-6	854-5	156-4	383-4	239-6	742-5	152-4	375-4	236-6	665-5	151-4	371-4
0.042	150-4	347-6	218-4	201-4	519-4	267-6	894-5	154-4	399-4	262-6	814-5	152-4	393-4	261-6	742-5	151-4	390-4
0.044	329-4	343-6	335-4	181-4	490-4	284-6	937-5	150-4	406-4	287-6	882-5	152-4	410-4	287-6	835-5	151-4	410-4
0.046	157-4	424-6	283-4	205-4	579-4	326-6	113-4	157-4	446-4	318-6	100-4	154-4	435-4	315-6	951-5	152-4	430-4
0.048	249-4	336-6	260-4	149-4	440-4	357-6	118-4	158-4	468-4	350-6	117-4	155-4	458-4	344-6	107-4	153-4	450-4
0.050	580-5	394-6	291-4	161-4	495-4	384-6	154-4	157-4	483-4	380-6	136-4	155-4	477-4	374-6	122-4	152-4	470-4
0.055	415-4	716-6	565-4	242-4	818-4	454-6	190-4	153-4	518-4	452-6	166-4	152-4	516-4	452-6	155-4	153-4	517-4
0.060	294-4	604-6	459-4	171-4	633-4	584-6	217-4	165-4	612-4	556-6	205-4	158-4	582-4	544-6	191-4	154-4	569-4
0.065	293-4	868-6	590-4	210-4	839-4	643-6	267-4	155-4	621-4	621-6	250-4	150-4	600-4	636-6	236-4	154-4	615-4
0.070	268-4	173-5	118-3	362-4	155-3	793-6	387-4	165-4	712-4	740-6	342-4	154-4	664-4	758-6	299-4	159-4	681-4
0.075	305-4	187-5	138-3	340-4	156-3	113-5	793-6	207-4	952-4	994-6	448-4	180-4	833-4	935-6	367-4	171-4	783-4
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0.090	848-4	375-5	233-3	474-4	262-3	142-5	748-4	180-4	996-4	134-5	550-4	169-4	940-4	178-4	546-4	178-4	979-4
0.095	598-4	454-5	266-3	514-4	300-3	211-5	893-4	240-4	140-3	179-5	712-4	203-4	119-3	162-5	638-4	187-4	107-3
0.100	315-3	593-5	367-3	607-4	373-3	249-5	123-3	255-4	156-3	211-5	941-4	216-4	132-3	185-5	736-4	188-4	116-3
0.110	173-3	663-5	346-3	561-4	379-3	339-5	172-3	288-4	193-3	230-5	107-3	197-4	131-3	216-5	794-4	182-4	123-3
0.120	459-3	121-4	579-3	864-4	637-3	364-5	176-3	260-4	190-3	308-5	134-3	219-4	161-3	284-5	105-3	204-4	148-3
0.130	852-3	327-4	105-2	137-3	115-2	116-4	289-3	344-4	273-3	385-5	152-3	231-4	186-3	349-5	127-3	213-4	168-3
0.140	675-3	160-4	614-3	730-4	673-3	892-5	313-3	405-4	374-3	612-5	213-3	277-4	256-3	461-5	161-3	210-4	193-3
0.150	556-3	160-4	614-3	730-4	673-3	892-5	313-3	405-4	374-3	612-5	213-3	277-4	256-3	461-5	161-3	210-4	193-3
0.160	117-2	396-4	152-2	158-3	111-2	116-4	289-3	344-4	273-3	385-5	152-3	231-4	186-3	349-5	127-3	213-4	168-3
0.170	873-3	302-4	105-2	107-3	111-2	184-4	617-3	651-4	682-3	122-4	397-3	435-4	453-3	794-5	248-3	288-4	293-3
0.180	213-2	632-4	217-2	199-3	220-2	146-4	470-3	463-4	510-3	129-4	381-3	410-4	452-3	897-5	256-3	285-4	313-3
0.190	200-2	620-4	204-2	175-3	205-2	259-4	803-3	736-4	859-3	157-4	479-3	451-4	521-3	103-4	307-3	294-4	341-3
0.200	132-2	501-4	161-2	128-3	157-2	232-4	684-3	596-4	729-3	165-4	491-3	424-4	520-3	113-4	326-3	291-4	356-3
0.220	875-3	320-4	915-3	678-4	916-3	144-4	381-3	307-4	413-3	138-4	370-3	295-4	394-3	126-4	321-3	278-4	361-3
0.240	921-3	589-4	152-2	104-3	154-2	252-4	630-3	452-4	661-3	175-4	425-3	316-4	458-3	152-4	340-3	270-4	400-3
0.260	309-2	129-3	310-2	195-3	312-2	530-4	124-2	802-4	128-2	317-4	752-3	486-4	767-3	207-4	465-3	313-4	502-3
0.280	364-2	167-3	381-2	217-3	374-2	568-4	124-2	738-4	127-2	364-4	823-3	485-4	817-3	231-4	513-3	309-4	520-3
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0.340	131-2	995-4	184-2	880-4	183-2	668-4	132-2	587-4	123-2	444-4	890-3	391-4	821-3	286-4	588-3	254-4	529-3
0.360	171-2	112-3	198-2	890-4	197-2	494-4	932-3	392-4	863-3	381-4	719-3	304-4	665-3	284-4	541-3	226-4	495-3
0.380	881-3	640-4	103-2	454-4	105-2	430-4	656-3	306-4	712-3	321-4	540-3	231-4	531-3	261-4	482-3	187-4	432-3
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0.420	143-2	997-4	148-2	578-4	149-2	647-4	938-3	375-4	988-3	511-4	700-3	299-4	765-3	377-4	518-3	221-4	565-3
0.440	239-2	171-3	241-2	907-4	245-2	935-4	125-2	492-4	133-2	650-4	886-3	343-4	929-3	429-4	606-3	230-4	613-3
0.460	183-2	145-3	204-2	718-4	202-2	948-4	129-2	457-4	129-2	678-4	957-3	332-4	926-3	444-4	623-3	218-4	606-3
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0.500	871-3	110-3	139-2	451-4	138-2	753-4	986-3	307-4	947-3	562-4	774-3	230-4	706-3	402-4	557-3	168-4	505-3
0.550	156-2	143-3	160-2	484-4	163-2	624-4	751-3	210-4	713-3	499-4	596-3	171-4	570-3	389-4	457-3	135-4	445-3
0.600	532-3	936-4	977-3	265-4	980-3	490-4	539-3	139-4	513-3	449-4	476-3	129-4	470-3	379-4	416-3	110-4	397-3
0.650	475-3	913-4	918-3	221-4	882-3	687-4	704-3	166-4	664-3	570-4	563-3	138-4	551-3	416-4	443-3	103-4	402-3
0.700	143-2	188-3	166-2	392-4	168-2	910-4	869-3	190-4	817-3	659-4	641-3	139-4	592-3	474-4	511-3	101-4	425-3

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California Institute of Technology
Earthquake Engineering Research Laboratory

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EERL 71-20	" " (Vol. I, Part C)	PB-204 364
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EERL 72-21	" " (Vol. I, Part H)	PB-211 781
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EERL 72-23	" " (Vol. I, Part J)	PB-213 423
EERL 72-24	" " (Vol. I, Part K)	PB-213 424
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EERL 72-51	" " (Vol. II, Part C)	PB-220 162
EERL 72-52	" " (Vol. II, Part D)	PB-220 836
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EERL 73-51	" " (Vol. II, Part F)	PB-224 977/9AS
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EERL 73-80	" "	(Vol. III, Part B)	PB-221 256
EERL 73-81	" "	(Vol. III, Part C)	PB-223 025
EERL 73-82	" "	(Vol. III, Part D)	PB-227 469/AS
EERL 73-83	" "	(Vol. III, Part E)	PB-227 470/AS
EERL 73-84	" "	(Vol. III, Part F)	PB-227 471/AS
EERL 73-85	" "	(Vol. III, Part G)	PB-231 223/AS
EERL 74-80	" "	(Vol. III, Part H)	PB-231 319/AS
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EERL 73-100	" "	(Vol. IV, Part B)	PB-220 837
EERL 73-101	" "	(Vol. IV, Part C)	PB-222 514
EERL 73-102	" "	(Vol. IV, Part D)	PB-223 969/AS
EERL 73-103	" "	(Vol. IV, Part E)	PB-229 240/AS
EERL 73-104	" "	(Vol. IV, Part F)	PB-229 241/AS
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